

POINT RUSTON

5219 N. SHIRLEY ST. SUITE 100 RUSTON, WA 98407

December 15, 2012

Mr. Kevin L. Rochlin
Remedial Project Manager
U.S. Environmental Protection Agency
Region 10
1200 Sixth Avenue, ECL-111
Seattle, WA 98101

RECEIVED

DEC 18 2012

OFFICE OF
ENVIRONMENTAL CLEANUP

RE: Monthly Report: No. 198, November 2012
Operable Unit No. 02 - Asarco Tacoma Smelter Site

Dear Mr. Rochlin:

Point Ruston is submitting this monthly report per the requirements of paragraph 48 of the Consent Decree for the above referenced site. The report is organized to follow item (a) through (g) of this paragraph.

If you have any questions, please call me at (253) 752-2185, extension 236.

Sincerely,



Loren Cohen
Manager of Legal Affairs

Attachment (2 copies)

cc: Steve Teel - Washington Department of Ecology
Evan Griffiths - CH2MHill (2 copies)
Leslie Ann Rose - Citizens for a Healthy Bay

USEPA SF



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Operable Unit 02
Asarco Tacoma Smelter Site

A. Actions taken to achieve compliance with the Consent Decree during the previous month.

1. Point Ruston personnel and its contractors hosted numerous meetings and conversations with EPA over the month of November, along with many electronic communications related to varying aspects of the project. Work continued on many various RA tasks, including work associated with the following projects:

- Phase 1 CMP
- Waterwalk CMP
- Temporary Cap & Storm Water Management Plan
- Sequence of Development Plan & Occupancy Plan
- Occupancy Air Monitoring Plan
- Long Term OMMP
- CC&Rs
- Metro Parks Peninsula Park CMP
- DNR Sediment Cap RD

Point Ruston continued work on the Metro Parks Peninsula Park property as part of its final settlement agreement with the Park District. Point Ruston and the DNR are negotiating an amendment to the off-site sediment remediation agreement required under the Consent Decree to finalize the sediment cap design in order to achieve construction completion during the current 'fish window'. Coordination between EPA, DNR and Point Ruston is regular and ongoing.

2. Continued to conduct Air Monitoring per the approved plan under the CH&SP. Point Ruston has submitted a new plan for occupancy air monitoring, which we will add to the occupancy plan and reflect in our CMP submittals. Point Ruston is in the process of installing the additional hi-vols and purchasing the additional real-time monitors.
3. Point Ruston and its contractors continued construction of the improvements associated with Phase 1 CMP. Point Ruston is working on a Phase 1 RA Construction Report and a Phase 1 Occupancy plan, which will include a specific Contingency Plan for residential occupants.
4. Point Ruston is working on a plan for opening the Waterwalk to public access and use, which includes a Contingency Plan for such public access and use. The Waterwalk Access and Use Plan will be submitted shortly. The RA work is almost completed. We continue to work on the Waterwalk RA Construction Report.

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5. Continued performing all site maintenance and monitoring, including all requirements under the Site Wide Construction Health and Safety Plan.
6. Continued weekly site-inspection reports (see attached).
7. Maintained clean work areas and roads, including fencing and CRZ connections between site units.
8. Training activities include the following:
 - Site Safety Orientations (Clean Zone) were held for:
 - i. Three hundred thirty five (335) site visitors and personnel of various companies
 - HAZWOPER Basic training was verified or completed by personnel of the following companies:
 - i. One (1) Stegin Concrete employee
 - ii. One (1) A.A.R. Testing Laboratory employee
 - HAZWOPER annual retraining was verified or completed by personnel of the following companies:
 - i. One (1) J.M. Corp & Son employee
 - ii. One (1) Point Ruston employee
 - iii. One (1) NW Linings employee
 - Site Specific Safety Training (Exclusion Zone) was held for personnel of the following companies:
 - i. One (1) Stegin Concrete employee
 - ii. One (1) A.A.R. Testing Laboratory employee

B. Summary of sampling, tests and all other data received or generated by Point Ruston in the previous month.

1. Stormwater Outfall sampling, data and related activities include the following:

Section 2.3 of the Final Statement of Work (SOW) for Remedial Design and Remedial Action – Exhibit F to the Second Amendment requires Point Ruston to continue outfall monitoring. Outfalls will be monitored to determine if the monthly average surface water outfall concentrations for arsenic, copper, and zinc exceed 0.5 ppm at the North and South site outfalls until they are abandoned.

Weekly composite samples will be collected at each outfall during the construction season. During the winter season, outfall samples will be

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collected every other month. Asarco began the following schedule in May of 2003, which Point Ruston will continue to implement: weekly composite samples will be collected from April-October, and in December and February.

In addition to the North and South Outfalls, Point Ruston monitors an existing upland station near the southeastern end of the car tunnel. This monitoring station is designated OSW2. Outfall samples were not collected in November per the SOW schedule.

On April 20, 2012 storm water passing through the OSW2 location was diverted into the new City of Tacoma storm water main (Edwards Street Outfall); therefore no storm water is entering the South Outfall, and therefore monitoring has been discontinued. Inspection of the South Outfall indicated that no flow is occurring. Sampling at the South Outfall location was suspended beginning in May 2012 due to lack of sampling media. South Outfall set to be abandoned in near future, pending finalization of ultimate SWP plans.

2. OCF leachate sampling, data, disposal and related activities include the following:

Point Ruston collects OCF leachate in a 5,000-gallon polyethylene tank for offsite shipment and disposal. The OCF OMMP requires inspections to correspond with monthly, quarterly, or semi-annual reporting intervals as specified by the Response Action Plan. However, Point Ruston inspects LCRS and LDCRS volumes daily. LCRS volumes currently average approximately 95 gallons per day. Point Ruston currently ships 4,700-5,000 gallons approximately every 50 days. Point Ruston shipped 4,716 gallons of leachate (4.72 mg/L arsenic) on November 9th. Sample results are attached.

3. Air Monitoring, sampling, data and related activities include the following:

Point Ruston performs perimeter air monitoring at three locations on the site: NW Corner of OCF, OCF Vault #1 (upper vault), and at the South Gate. With EPA approval, Point Ruston does not conduct perimeter air monitoring during wet weather events that cause wet site conditions. Perimeter air monitoring resumes when the weather allows the site to dry out. Results for samples collected November 5th through November 16th are attached. There were no exceedances. Results for the remainder of November are pending laboratory analysis and will be submitted with the December report.

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Point Ruston performs personal air monitoring in accordance with WAC 296-848-20060(1) & WAC 296-155-17609(1) (a) to determine if the airborne concentrations of arsenic and lead exceed the PEL. Personal air monitoring (Exposure Evaluations) was not required in November.

4. Methane gas monitoring sampling, data and related activities include the following:

Point Ruston performs subsurface methane gas monitoring pursuant to the EPA approved "Building 2B Sampling & Analysis Plan – Subsurface Gas Monitoring Activities" plan. In 2009 a passive gas extraction system was installed as part of the construction of the 2B-West building foundation. In 2011 Point Ruston began monitoring the passive gas extraction system at four (4) locations in addition to four (4) gas monitoring wells installed within the boundaries of the 2B-East building foundation. Sampling of these locations has been ongoing, pursuant to ASTM E2600. On October 9, 2012 the four (4) gas monitoring wells within the boundaries of the 2B-East building were plugged and abandoned. Methane monitoring for the month of November was conducted at the four (4) locations of the passive gas extraction system under the 2B-West building foundation. The Gas Monitoring Data Log and field worksheet for the month of November are attached. No methane has been detected to date. Methane monitoring of the passive extraction system will continue.

5. Miscellaneous soil sampling, data and related activities include the following:

Point Ruston performs miscellaneous on-site soil sampling related to its various ongoing RA work and development. Analysis results are attached.

Soil sampling was conducted on November 1st from the rough grade surface of Temporary Impermeable Cap Area E.

Soil sampling was conducted on November 5th from the rough grade surface of Temporary Impermeable Cap Area C.

Soil sampling was conducted on November 6th on clean common borrow material near the Grand Plaza stairs.

Soil sampling was conducted on November 6th from the clean haul road in the Material Management area on the north end of the site.

Soil sampling was conducted on November 6th from the clean haul road between buildings 2A and 2B.

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Soil sampling was conducted on November 7th from the rough grade surface of Temporary Impermeable Cap Area D.

Soil sampling was conducted on November 8th from the clean haul road at the southeast corner of building 2B-East

Water sampling was conducted on November 15th from the Cooling Pond.

Soil sampling was conducted on November 15th from a clean common borrow material located in the north end materials management area adjacent to an exclusion zone.

Soil sampling was conducted on November 20th from the Grand Avenue and Main Street clean haul roads adjacent to exclusion zone fencing bordering lot 9A and 9C (T.I.C. Area C).

Soil sampling was conducted on November 21st from the yacht club basin between the public boat ramp and the Breakwater Marina dock entrance.

Soil sampling was conducted on November 21st from the finished Waterwalk topsoil and gravel on the east and west side of the asphalt between the tide pool and southeast corner of Lot 1A (T.I.C. Area E).

C. Work Plans and other deliverables completed and submitted during the previous month.

1. Plans and Documents included the following:

Temporary Cap Plan & Site-Wide Storm Water Plan

Point Ruston has resubmitted an updated temporary cap plan and storm water plan, including plans and specifications. All follow-up questions from EPA have been addressed to date. Point Ruston was authorized to proceed with installation of the temp cap on the south end of the site. The first temporary cap will be installed around the areas fronting Stage 1 of the Waterwalk in order to proceed with implementing the public access and use plan for this Stage 1 area.

Construction Health & Safety Plan v.6 (CH&SP)

This plan was submitted to EPA, and comments have been received. Point Ruston is drafting responses and anticipates finalizing responses soon. This will be finalized after the approval of occupancy documents.

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Waterwalk CMP

This plan was approved by EPA. Point Ruston is responding to final comments from the City of Tacoma A plan for opening the Waterwalk to public access and use is drafted, which includes a Contingency Plan for such public access and use. The Waterwalk Access and Use Plan will be submitted in December. The RA work is getting close to being complete and Point Ruston is working on the Waterwalk RA Construction Report.

Phase 1 Construction Management Plan (CMP)

The final Phase 1 CMP was submitted to EPA on September 4th. Final site work RA will be conducted throughout the remainder of the year. Minor revisions to the site work plan were submitted to EPA on 11/20/2012. Point Ruston is working on a Phase I RA Construction Report and a Phase I Occupancy Plan. The Occupancy Plan is drafted in the context of residential occupancy (which Point Ruston has distinguished from the Waterwalk Access and Use Plan). The Occupancy Plan will include a specific Contingency Plan for residential occupants. Hydrometrics is seeking guidance from EPA as to what components are required of a residential occupancy Contingency Plan.

Master Infrastructure CMP (MICMP)

Construction of the MICMP is substantially complete, with minor punch list items being completed. Point Ruston submitted a design addendum related to the abandonment of the tunnel. This work is awaiting final confirmation from the Town of Ruston, who owns and controls the tunnel. Point Ruston will submit a final construction report to EPA for its review and final inspection related to Certification of Completion for this phase of work.

Ruston Way CH&SP Plan

Completed and submitted to EPA for Ruston Way opening. Approved, and roadway opened in June 29th.

Sequence of Development and Occupancy Plan (SDOP)

The SDOP submitted to EPA on September 4th and EPA communicated its responses, which is an approval subject to certain conditions. Point Ruston is submitting responses to comments received from EPA on 11/9/2012. Point Ruston is revising the air monitoring plan to reflect the new approach that was agreed to with EPA during Bison Engineering's site visit. EPA has requested that a "Contingency Plan" component be added to the SDOP. The updated SDOP will include a draft Contingency Plan, but Point Ruston needs EPA guidance as to its goals for such contingency plan in the context of residential occupancy.

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Operations Maintenance and Monitoring Plan (OMMP)

The OMMP was submitted to EPA on September 4th. Point Ruston is awaiting final approval.

CC&Rs

The environmental CC&Rs were submitted to EPA on September 4th. Point Ruston is awaiting final approval.

Biological Assessment South Outfall Construction (Edwards Street)/ BA South Outfall Flow (Edwards Street)

The BA was completed and approved, and the outfall was successfully constructed.

BA Shoreline Stabilization RA

Post-inspection completion report has been drafted and will be submitted to EPA following final armoring conducted as part of the Peninsula Park CMP.

Sediment Capping RD

Upon settling its legal claim with DNR, Point Ruston formally submitted the 2012 Sediment Cap RA plan to EPA for approval. EPA and Point Ruston have been working on the final design in conjunction with DNR. Point Ruston received design approval from EPA on 11/20/2012. Point Ruston is currently working with DNR in order to implement this project during the current fish window. Mobilization of the contractor is tentatively scheduled for January 2, 2013.

Peninsula Park CMP

Peninsula Park CMP was submitted to EPA on September 4th. Pre-construction work will begin in anticipation of final Peninsula Park CMP approval, with preliminary grading and SAP of import materials being conducted first. EPA submitted comments to EPA on 10/9/2012, and Point Ruston responded to EPA on 10/10/2012. Point Ruston held a preconstruction meeting on 10/11/2012. Point Ruston received a confusing response from EPA on 11/19/2012 that appears to be a mistake, but Point is unclear if it was sent in place of an approval letter or possibly additional comments that EPA may have. Point Ruston is awaiting final approval.

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2. Remedial Action included the following tasks:

OCF construction activities:

Maintained leachate collection system; Inspected storm drain system, vaults and cover; Maintained the temporary storage area, related to site-wide grading and Temporary Cap construction. Point Ruston agreed with the Town of Ruston to move the materials and equipment away from the frontage of The Commencement apartment building.

Stack Hill construction activities:

Maintain lot grading and final cover in clean, final RA form.

Phase 1 CMP

Continued RA construction of utility connections and final roadway subgrade for permanent cap subgrade, including along view corridors and Main Street. Complete footing construction of 2B-East foundation.

Waterwalk CMP

Complete work and open Stage 1 for public access and use. Work is ongoing, including construction of the lateral spreader storm water system, and completion of the liner, marker layer and cover soils along the extent of the project. Topsoil placement and irrigation system installation, and final landscape installation is on-going. Final prep for public amenities foundations is on-going, as is installation of the buffer and perimeter fencing. Power conduit installation continues, with final grading for the poured concrete entrance area and asphalt surrounds, establishment of rock monuments and install tile mosaic hardscapes. BMPs and CH&SP zones continuously monitored and maintained.

Temporary Impervious Cap and Construction Stormwater Management Plan

Implement the cap in conjunction with the opening and use plan for the Waterwalk, and work westward across the site to implement the temporary cap.

Site-wide remediation/redevelopment activities:

- Continued surface water controls
- Maintained onsite haul roads and stockpiles
- Maintained erosion and surface water controls; Inspected and repaired silt fence and exclusion zone fencing.
- Continued site-wide dust monitoring and control through site and access road watering, as needed.

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- Maintained air-monitoring program per CH&SP requirements
- Continued to maintain Ruston Way Construction Health and Safety protocols, including air monitoring, dust suppression, buffer zone maintenance, fencing and signage.

D. Actions scheduled for the next six weeks.

1. Point Ruston to maintain the Ruston Way Health and Safety protocols, including applying tacifier to all buffer areas with exposed soils, and continuing to monitor for dust.
2. Point Ruston to continue construction of Waterwalk CMP improvements and work to open the First Stage to public occupancy as a test of the site wide SDOP and Institutional Controls.
3. Point Ruston and EPA finalizing RD approvals for the following plans and documents:
 - Peninsula Park CMP
 - Sediment Cap Remedial Design
 - OMMP
 - SDOP
 - Temporary Cap Plan and SWP
 - Institutional Controls/CC&Rs
 - Phase 1 CMP (updated)
 - CH&SP v.6
4. Continue construction of Temporary Cap and Site Wide Storm System, including construction of swales and anchor trenches, as well as layout of interim stormwater system, temporary liner(s) and gravel cover system.
5. Continue CH&SP air monitoring during RA activities also TSP sampling and analysis and correlating the data for eventual data-ram analysis during occupancy.
6. Continue to implement terms of the settlement with Metro Parks Tacoma and the State of Washington regarding the off-site remedial action required under the Consent Decree.

The following Remedial Action tasks are planned to continue:

RA Monitoring:

- a. Outfall sampling (weekly composite samples) during scheduled months
- b. Air monitoring during remedial action activities

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OCF OMMP activities:

- a. Continue collection of leachate for offsite disposal
- b. Continue monitoring of leachate volumes

Stack Hill construction activities:

- a. Erosion controls and site maintenance, and maintain roads and landscaping, including mowing, and keep and maintain the landscaping.
- b. Continue sales & marketing efforts for custom home construction

Site-wide construction activities:

- a. Maintain roads and stockpiles onsite
- b. Maintain erosion controls
- c. Complete site wide grading and placement of onsite stockpiles and soils in advance of subgrade construction and compaction.
- d. Maintain erosion control BMPs and CH&SP standards

Phase 1 CMP

- a. Continue vertical construction
- b. Continue utility construction
- c. Continue roadway construction
- d. Continue final cap RA construction
- e. Maintain erosion control BMPs and CH&SP standards

Waterwalk CMP

- a. Continue construction of Waterwalk improvements, finalizing First Stage for public access and use and prepping for next stage to open for public access and use.
- b. Maintain erosion control BMPs and CH&SP standards

Temporary Impervious Cap and Construction Stormwater Management Plan

- a. Continue final mass grading
- b. Stormwater construction
- c. Installation of temporary cap materials, including liner(s) and gravel

E. *Percentage completion, unresolved delays encountered or anticipated that may affect schedule, and efforts to mitigate delays.*

Final approval of TIC/SW plans and completion of approved SDOP and completion of EPA negotiations on RA schedule modifications and associated matters.

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F. Modifications to work plans or schedules proposed to or approved by EPA.

1. The Second Amendment to the Consent Decree was finalized and the sale of the property to Point Ruston LLC completed on October 31, 2006.
2. Point Ruston submitted a Request for Schedule Modification to Attachment 1 of the Final Statement of Work on February 9, 2010. EPA approved a SOW Schedule Modification on March 24, 2011 deleting the 50% cap completion date, in exchange for an agreement by Point Ruston to complete an interim temporary cap on the site. Discussions are on-going.
3. Point Ruston has proposed a plan to EPA related to a schedule modification related to its Consent Decree.

G. Activities undertaken to support Community Relations Plan during the previous month and planned for the next four weeks.

1. Point Ruston continues to work in conjunction with staff from the Town of Ruston and City of Tacoma regarding development plans, which incorporate remediation components for the site.
2. Point Ruston continues negotiations, design and conclusion of the sale of Waterwalk property and finalizing of the LID assessment roles with the City of Tacoma.
3. Point Ruston continues to meet with the Town of Ruston, City of Tacoma and MetroParks to address operation, maintenance, and monitoring issues at the site, including finalizing a O&M cost sharing agreement related to the public infrastructure.
4. Continued conversations with upper management at DNR related to the DNR aquatic land cleanup issues, and implementation of the RA.

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WEEKLY
SITE
INSPECTION
REPORTS

Reference	Date	Description
GEN2012-1104	11/04 – 11/10	General Site Weekly Inspection Report
SH2012-1104	11/04 – 11/10	Stack Hill Weekly Inspection Report
STR2012-1104	11/04 – 11/10	Streets Weekly Inspection Report
TIC2012-1104	11/04 – 11/10	Temporary Impermeable Cap Weekly Inspection Report
GEN2012-1111	11/11 – 11/17	General Site Weekly Inspection Report
SH2012-1111	11/11 – 11/17	Stack Hill Weekly Inspection Report
STR2012-1111	11/11 – 11/17	Streets Weekly Inspection Report
TIC2012-1111	11/11 – 11/17	Temporary Impermeable Cap Weekly Inspection Report
GEN2012-1118	11/18 – 11/24	General Site Weekly Inspection Report
TIC2012-1118	11/18 – 11/24	Temporary Impermeable Cap Weekly Inspection Report
GEN2012-1125	11/25 – 12/01	General Site Weekly Inspection Report
SH2012-1125	11/25 – 12/01	Stack Hill Weekly Inspection Report
STR2012-1125	11/25 – 12/01	Streets Weekly Inspection Report
TIC2012-1125	11/25 – 12/01	Temporary Impermeable Cap Weekly Inspection Report



GENERAL SITE

Weekly Site Inspection Report No. GEN 2012-1104

Week of: 11/4 - 10, 2012

Inspector: JEN RUSHER

Operable Unit 02 - Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	OVERAL CONDITION			NEED REPAIR?		COMMENTS/OBSERVATIONS
Gates:						(See "Streets" Report for additional gates)
Slag Peninsula	(G)	F	P	Y	(N)	
52 nd Street	G	(F)	P	Y	(N)	
54 th Street (electric)	(G)	F	P	Y	(N)	
Signage:						
Gates	(G)	F	P	Y	(N)	
Perimeter	(G)	F	P	Y	(N)	
Safety	(G)	F	P	Y	(N)	
Security:						
Locks	(G)	F	P	Y	(N)	
Alarms	(G)	F	P	Y	(N)	
Cameras	G	(F)	P	Y	(N)	LENSES NEED CLEANED
BMPs:						
Silt Fence	(G)	F	P	Y	(N)	
Waddles	(G)	F	P	Y	(N)	
Nursery:						
Plants	(G)	F	P	Y	(N)	
Sprinkler	(G)	(F)	P	Y	(N)	NEED TO DRAW FOR WINTER
Weeds	G	(F)	P	Y	(N)	
Stockpiles:						
Envirotac II	(G)	F	P	Y	(N)	
Plastic	G	(F)	P	Y	(N)	
Packed	(G)	F	P	Y	(N)	
Grass	(G)	F	P	Y	(N)	
Dust:						
Traffic areas	(G)	F	P	Y	(N)	
Excavation area	(G)	F	P	Y	(N)	
Fencing:						
Site Perimeter	(G)	F	P	Y	(N)	
Zone Separation	(G)	F	P	Y	(N)	
CRZs:						
Area D	(G)	F	P	Y	(N)	
(Other)	G	F	P	Y	(N)	
Haul Roads:						
Main Street	G	(F)	P	(Y)	(N)	POT HOLES
Grand Ave.	(G)	F	P	Y	(N)	
OCF road	(G)	F	P	Y	(N)	
Metr.Pks-Peninsula	(G)	F	P	Y	(N)	

G=Good F=Fair P=Poor Y=Yes N=No

GENERAL SITE - Weekly Site Inspection Report No. GEN 2012- 1104
Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

Misc. notes:

Air Monitoring:

Day of Week	Hi-Vol QTY	Personal QTY	Portable QTY	Air Monitoring Notes
Sun	4	0	0	NO RA ACTIVITY
Mon	5	0	0	GRAND (CONCRETE PLAZA FORMING)
Tue	6	0	0	2BE (FOUNDATION WORK) / 2A (COVER DRAIN PITS) / W.W. (SOD BLOWING)
Wed	7	0	0	2BE (FOUNDATION WORK) / 2A (RETAINING WALL) / GRAND (CONCRETE PLAZA FORMING)
Thu	8	0	0	2BE (FOUNDATION WORK) / GRAND (CONCRETE PLAZA FORMING) / T.I.C.I. (SILT FENCE)
Fri	9	0	0	2A (RETAINING WALL) / METRO PARKS (REMOVAL)
Sat	10	0	0	NO RA ACTIVITY

WEATHER:

Day of Week	(LOW/HIGH)	Summary of Weather Conditions
Sun	4	55°/67°: SOUTH WIND 3MPH / GUST 11MPH, PRECIP. 0.29" (SCATTERED)
Mon	5	49°/63°: NNW WIND 4MPH / GUST 8MPH, PRECIP. 0.29" (EARLY MORN)
Tue	6	46°/57°: SOUTH WIND 4MPH / GUST 14MPH, PRECIP 0.04" (EVE)
Wed	7	41°/58°: SOUTH WIND 5MPH / GUST 16MPH, NO PRECIPITATION
Thu	8	36°/51°: NORTH WIND 6MPH / GUST 13MPH, NO PRECIPITATION
Fri	9	36°/55°: NNW WIND 4MPH / GUST 9MPH, NO PRECIPITATION
Sat	10	30°/50°: SSE WIND 3MPH / GUST 9MPH, NO PRECIPITATION

I certify that this report is true, accurate and complete, to the best of my knowledge and belief.

INSPECTOR: DATE: 11/12/2012

SIGNED: 

H&S OFFICER: DATE: 11/13/12

SIGNED: 



STACK HILL

Weekly Site Inspection Report No. SH 2012- 1104

Week of: 11 / 4 - 11 / 10, 2012

Inspector: Harry Slaughter

Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	OVERAL CONDITION			NEED REPAIR?		COMMENTS/OBSERVATIONS
Streets:						
Villard St.	G	F	P	Y	N	
Court St.	G	F	P	Y	N	
Commercial St.	G	F	P	Y	N	
Baltimore St.	G	F	P	Y	N	
49 th St.	G	F	P	Y	N	
Tract A (private)	G	F	P	Y	N	
Lot #18 (private)	G	F	P	Y	N	
View Point:						
Parking Pad	G	F	P	Y	N	
Gravel Path	G	F	P	Y	N	
Display Boards	G	F	P	Y	N	
Storm Drains Clean:	Y					
Catch Basins	G	F	P	Y	N	removed apples & leaves for drains
BMPs:						
Hydroseed	G	F	P	Y	N	
(Other)	G	F	P	Y	N	
Sidewalks:						
Damage	G	F	P	Y	N	
Weeds	G	F	P	Y	N	
Signage:						
Perimeter "Advisory"	G	F	P	Y	N	
No Trespass (Tunnel Hillside)	G	F	P	Y	N	
Dust:						
Excavation Areas	G	F	P	Y	N	
Fencing:						
4' Site Perimeter	G	F	P	Y	N	look to replace next week.
6' Temp. Panels	G	F	P	Y	N	
Street Lights:						
Condition	G	F	P	Y	N	
Site Markers:						
Lot Numbers	G	F	P	Y	N	
Utilities	G	F	P	Y	N	
Survey Stakes	G	F	P	Y	N	
Retaining Walls:						
Baltimore	G	F	P	Y	N	
Lots 22/23/24	G	F	P	Y	N	

G=Good F=Fair P=Poor Y=Yes N=No

STACK HILL - Weekly Site Inspection Report No. SH 2012- 1104
Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

Misc. notes:

light post is down on Villard St.
(REPLACEMENT IS ORDERED)

I certify that this report is true, accurate and complete, to the best of my knowledge and belief.

INSPECTOR: DATE: 11-9-2012

SIGNED: Harry J. Slone

H&S OFFICER: DATE: 11/12/12

SIGNED: [Signature]



STREETS

Weekly Site Inspection Report No. **STR 2012- 1104**

Week of: **11 / 4 - 11 / 10, 2012**

Inspector: **Harry Slaughter**

Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	OVERAL CONDITION			NEED REPAIR?		COMMENTS/OBSERVATIONS
Streets:						
Surface	G	F	P	Y	N	
Paint	G	F	P	Y	N	
Splitter Islands	G	F	P	Y	N	
Barricades	G	F	P	Y	N	
Signage:						
Trespass	G	F	P	Y	N	
Advisory	G	F	P	Y	N	
Traffic	G	F	P	Y	N	
Marketing	G	F	P	Y	N	
Street Lights:						
Ruston Way	G	F	P	Y	N	ONE LIGHT BURNED OUT BOWN R-A-Bs
51 st Street	G	F	P	Y	N	
Baltimore	G	F	P	Y	N	
Yacht Club	G	F	P	Y	N	
Junction Boxes	G	F	P	Y	N	
Storm Drains:						
Curb/Gutter	G	F	P	Y	N	
CBs	G	F	P	Y	N	Removed leaves from drains
Filtreras	G	F	P	Y	N	
Sidewalks:						
Paint	G	F	P	Y	N	
Crossings	G	F	P	Y	N	
Bollards	G	F	P	Y	N	
Landscaping:						
Trees	G	F	P	Y	N	
Plants	G	F	P	Y	N	
Sprinkler	G	F	P	Y	N	
Bark/Mulch	G	F	P	Y	N	
Roundabouts:						
Grand	G	F	P	Y	N	
Yacht Club	G	F	P	Y	N	
Features:						
Wall/Rail	G	F	P	Y	N	
Development Sign	G	F	P	Y	N	

G=Good F=Fair P=Poor Y=Yes N=No

Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

Gates:					
Cooling Pond – West	G	F	P	Y	N
Cooling Pond – North	G	F	P	Y	N
Lot #12	G	F	P	Y	N
Lot #10 – West	G	F	P	Y	N
Lot #10 – North	G	F	P	Y	N
BNSF – A	G	F	P	Y	N
OSW02	G	F	P	Y	N
Grand – East	G	F	P	Y	N
Grand – West	G	F	P	Y	N
Cascade	G	F	P	Y	N
Yacht Club – North	G	F	P	Y	N
Yacht Club – South	G	F	P	Y	N

Other:					
Roundabouts	G	F	P	Y	N
Jersey Barriers	G	F	P	Y	N
Baltimore Bridge	G	F	P	Y	N

Misc. notes:

I certify that this report is true, accurate and complete, to the best of my knowledge and belief.

INSPECTOR: DATE: 11-09-2012 SIGNED: Harry J. Slough

REVIEWED: DATE: 11/12/12 SIGNED: [Signature]



TEMPORARY IMPERMEABLE CAP

Weekly Site Inspection Report No. TIC 2012-1104

Week of: 11/14 - 11/16, 2012 Inspector: Pat Wilber

Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	OVERALL CONDITION			CLEAN?		NEED REPAIR?		COMMENTS/OBSERVATIONS
Area A								
Geomembrane	G	F	P	Y	N	Y	N	
Gravel Cover	G	F	P	Y	N	Y	N	
Edge Anchorage	G	F	P	Y	N	Y	N	
Drainage	<u>G</u>	F	P	<u>Y</u>	N	Y	<u>N</u>	
	G	F	P	Y	N	Y	N	
Area B								
Geomembrane	G	F	P	Y	N	Y	N	
Gravel Cover	G	F	P	Y	N	Y	N	
Edge Anchorage	G	F	P	Y	N	Y	N	
Drainage	<u>G</u>	F	P	<u>Y</u>	N	Y	<u>N</u>	
	G	F	P	Y	N	Y	N	
Area C								
Geomembrane	G	F	P	Y	N	Y	N	
Gravel Cover	G	F	P	Y	N	Y	N	
Edge Anchorage	G	F	P	Y	N	Y	N	
Drainage	<u>G</u>	F	P	<u>Y</u>	N	Y	<u>N</u>	
	G	F	P	Y	N	Y	N	
Area D								
Geomembrane	G	F	P	Y	N	Y	N	
Gravel Cover	G	F	P	Y	N	Y	N	
Edge Anchorage	G	F	P	Y	N	Y	N	
Drainage	<u>G</u>	F	P	<u>Y</u>	N	Y	<u>N</u>	small areas standing water
	G	F	P	Y	N	Y	N	
Area E								
Geomembrane	G	F	P	Y	N	Y	N	
Gravel Cover	G	F	P	Y	N	Y	N	
Edge Anchorage	G	F	P	Y	N	Y	N	
Drainage	<u>G</u>	F	P	<u>Y</u>	N	Y	<u>N</u>	fence areas added @ water work construction
	G	F	P	Y	N	Y	N	
Area F								
Geomembrane	G	F	P	Y	N	Y	N	
Gravel Cover	G	F	P	Y	N	Y	N	
Edge Anchorage	G	F	P	Y	N	Y	N	
Drainage	<u>G</u>	F	P	<u>Y</u>	N	Y	<u>N</u>	standing water purged to area G
	G	F	P	Y	N	Y	N	
Area G								
Geomembrane	G	F	P	Y	N	Y	N	
Gravel Cover	G	F	P	Y	N	Y	N	
Edge Anchorage	G	F	P	Y	N	Y	N	
Drainage	<u>G</u>	F	P	<u>Y</u>	N	Y	<u>N</u>	standing water purged to area H
	G	F	P	Y	N	Y	N	

G=Good F=Fair P=Poor Y=Yes N=No

TEMPORARY CAP - Weekly Site Inspection Report No. TIC 2012- 1104
Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	OVERAL CONDITION			CLEAN?		NEED REPAIR?		COMMENTS/OBSERVATIONS
Area H								
Geomembrane	G	F	P	Y	N	Y	N	
Gravel Cover	G	F	P	Y	N	Y	N	
Edge Anchorage	G	F	P	Y	N	Y	N	
Drainage	(G)	F	P	(Y)	N	Y	(N)	
	G	F	P	Y	N	Y	N	
Area I								
Geomembrane	G	F	P	Y	N	Y	N	
Gravel Cover	G	F	P	Y	N	Y	N	
Edge Anchorage	G	F	P	Y	N	Y	N	
Drainage	(G)	F	P	(Y)	N	Y	(N)	
	G	F	P	Y	N	Y	N	
Area J								
Geomembrane	G	F	P	Y	N	Y	N	
Gravel Cover	G	F	P	Y	N	Y	N	
Edge Anchorage	G	F	P	Y	N	Y	N	
Drainage	(G)	F	P	(Y)	N	Y	(N)	
	G	F	P	Y	N	Y	N	

Misc. notes:

I certify that this report is true, accurate and complete, to the best of my knowledge and belief.

INSPECTOR: DATE: 11/9/12

SIGNED: 

REVIEWED: DATE: 11/12/12

SIGNED: 



GENERAL SITE

Weekly Site Inspection Report No. GEN 2012-1111

Week of: 11/ 11 – 17, 2012

Inspector: JEN RUSHER

Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	OVERAL CONDITION			NEED REPAIR?		COMMENTS/OBSERVATIONS
Gates:						(See "Streets" Report for additional gates)
Slag Peninsula	(G)	F	P	Y	(N)	
52 nd Street	G	(F)	P	Y	(N)	
54 th Street (electric)	(G)	F	P	Y	(N)	
Signage:						
Gates	(G)	F	P	Y	(N)	
Perimeter	(G)	F	P	Y	(N)	
Safety	(G)	F	P	Y	(N)	
Security:						
Locks	(G)	F	P	Y	(N)	
Alarms	(G)	F	P	Y	(N)	
Cameras	G	(F)	P	Y	(N)	
BMPs:						
Silt Fence	(G)	F	P	Y	(N)	
Waddles	(G)	F	P	Y	(N)	
Nursery:						
Plants	(G)	F	P	Y	(N)	
Sprinkler	(G)	F	P	Y	(N)	
Weeds	G	(F)	P	Y	(N)	NEEDS to BE DRAINED
Stockpiles:						
Envirotac II	G	F	P	Y	N	
Plastic	G	(F)	P	Y	(N)	
Packed	(G)	F	P	Y	(N)	
Grass	(G)	F	P	Y	(N)	
Dust:						
Traffic areas	(G)	F	P	Y	(N)	
Excavation area	(G)	F	P	Y	(N)	
Fencing:						
Site Perimeter	(G)	F	P	Y	(N)	
Zone Separation	(G)	F	P	Y	(N)	
CRZs:						
Area D	(G)	F	P	Y	(N)	
(Other)	G	F	P	Y	N	
Haul Roads:						
Main Street	G	(F)	P	(Y)	N	
Grand Ave.	(G)	F	P	Y	(N)	
OCF road	(G)	F	P	Y	(N)	
Metr.Pks-Peninsula	(G)	F	P	Y	(N)	

G=Good F=Fair P=Poor Y=Yes N=No

GENERAL SITE - Weekly Site Inspection Report No. GEN 2012- 1111

Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

Misc. notes:

Air Monitoring:

Day of Week	Hi-Vol QTY	Personal QTY	Portable QTY	Air Monitoring Notes
Sun 11	0	0	0	NO RA ACTIVITY
Mon 12	3	0	0	2A (RETAINING WALL) (TEMP STORM TRENCH)
Tue 13	3	0	0	2B (FOUNDATION)
Wed 14	3	0	0	2B (FOUNDATION)
Thu 15	3	0	0	PENINSULA (GRADING) (HAULING)
Fri 16	3	0	0	WATERWALK @ PLAZA (LINER PREP)
Sat 17	0	0	0	NO RA ACTIVITY

WEATHER:

Day of Week	(LOW/HIGH)	Summary of Weather Conditions
Sun 11	33°/38°:SSE	WIND 3MPH/GUST 8MPH, PRECIP. 0.1" (EVENING)
Mon 12	43°/53°:SSW	WIND 4MPH/GUST 10MPH, PRECIP. 0.15" (EARLY MORN. BEVE)
Tue 13	46°/51°:SSW	WIND 2MPH/GUST 7MPH, PRECIP. 0.26" (SCATTERED)
Wed 14	43°/50°:WSW	WIND 3MPH/GUST 8MPH, PRECIP. 0.02" (MORN. SCATTERED)
Thu 15	39°/45°:NE	WIND 2MPH/GUST 16MPH, NO PRECIPITATION
Fri 16	35°/46°:WSW	WIND 1MPH/GUST 15MPH, PRECIP. 0.24" (SCATTERED)
Sat 17	41°/56°:SSW	WIND 4MPH/GUST 22MPH, PRECIP. 0.33" (AFTERNOON SCATTERED)

I certify that this report is true, accurate and complete, to the best of my knowledge and belief.

INSPECTOR: DATE: 11/19/2012

SIGNED: 

H&S OFFICER: DATE: 11/20/12

SIGNED: 



STACK HILL

Weekly Site Inspection Report No. SH 2012-11-11

Week of: 11/11 - 11/17, 2012

Inspector: Harry Slaughter

Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	OVERAL CONDITION			NEED REPAIR?		COMMENTS/OBSERVATIONS
Streets:						
Villard St.	(G)	F	P	Y	(N)	
Court St.	(G)	F	P	Y	(N)	
Commercial St.	(G)	F	P	Y	(N)	
Baltimore St.	(G)	F	P	Y	(N)	(X) SEE NOTES
49 th St.	(G)	F	P	Y	(N)	
Tract A (private)	(G)	F	P	Y	(N)	4) CONES MISSING FROM TOP + BOTTOM
Lot #18 (private)	(G)	F	P	Y	(N)	
View Point:						
Parking Pad	(G)	F	P	Y	(N)	
Gravel Path	(G)	F	P	Y	(N)	
Display Boards	(G)	F	P	Y	(N)	
Storm Drains Clean:						
Catch Basins	(G)	F	P	Y	(N)	Cleared debris from drains
BMPs:						
Hydroseed	(G)	F	P	Y	(N)	
(Other)	G	F	P	Y	N	
Sidewalks:						
Damage	(G)	F	P	Y	(N)	
Weeds	(G)	F	P	Y	N	
Signage:						
Perimeter "Advisory"	(G)	F	P	Y	(N)	
No Trespass (Tunnel Hillside)	(G)	F	P	Y	(N)	
Dust:						
Excavation Areas	(G)	F	P	Y	(N)	
Fencing:						
4' Site Perimeter	(G)	F	P	(X) Y	(N)	
6' Temp. Panels	(G)	F	P	Y	(N)	
Street Lights:						
Condition	(G)	F	P	(X) Y	N	(ORDERED) light post is down on Villard St.
Site Markers:						
Lot Numbers	(G)	F	P	Y	(N)	
Utilities	(G)	F	P	Y	(N)	
Survey Stakes	(G)	F	P	Y	(N)	
Retaining Walls:						
Baltimore	(G)	F	P	Y	(N)	
Lots 22/23/24	(G)	F	P	Y	(N)	

G=Good F=Fair P=Poor Y=Yes N=No

Misc. notes: UPPER BARRICADES ON BALTIMORE AT LOT #18.
APPEARS "A" BOARD KEYS GETTING MOVED SO CARS CAN DRIVE
PARTIALLY ON SIDEWALK TO GO AROUND BARRICADES. EVIDENT
FROM TIRE MARKS ON CURB.

UPPER BARRICADES ON BALTIMORE AT LOT #18.

APPEARS "A" BOARD KEEPS GETTING MOVED SO CARS CAN DRIVE PARTIALLY ON SIDEWALK TO GO AROUND BARRICADES. EVIDENT FROM TIRE MARKS ON CURB.

I certify that this report is true, accurate and complete, to the best of my knowledge and belief.

INSPECTOR: DATE: 11-16-2012

SIGNED: James O. Brown

H&S OFFICER: DATE: 11/17/12

SIGNED: 



STREETS

Weekly Site Inspection Report No. STR 2012- 11-11

Week of: 11 / 11 - 11 / 17, 2012

Inspector: Harry Slaughter

Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	OVERAL CONDITION			NEED REPAIR?		COMMENTS/OBSERVATIONS
Streets:						
Surface	(G)	F	P	(Y)	(N)	
Paint	(G)	F	P	(Y)	(N)	
Splitter Islands	(G)	F	P	(Y)	(N)	
Barricades	(G)	F	P	(Y)	(N)	Need to replace Scurbags
Signage:						
Trespass	(G)	F	P	Y	(N)	
Advisory	(G)	F	P	Y	(N)	
Traffic	(G)	F	P	Y	(N)	
Marketing	(G)	F	P	Y	(N)	
Street Lights:						
Ruston Way	(G)	F	P	Y	(N)	Bulb Out BETWEEN Roundabouts
51 st Street	(G)	F	P	Y	(N)	
Baltimore	(G)	F	P	Y	(N)	
Yacht Club	(G)	F	P	Y	(N)	
Junction Boxes	(G)	F	P	Y	(N)	
Storm Drains:						
Curb/Gutter	(G)	F	P	Y	(N)	Cleared debris from drains
CBs	(G)	F	P	Y	(N)	
Filtreras	(G)	F	P	Y	(N)	
Sidewalks:						
Paint	(G)	F	P	Y	(N)	
Crossings	(G)	F	P	Y	(N)	
Bollards	(G)	F	P	Y	(N)	
Landscaping:						
Trees	(G)	F	P	Y	(N)	
Plants	(G)	F	P	Y	(N)	
Sprinkler	(G)	F	P	Y	(N)	
Bark/Mulch	(G)	F	P	Y	(N)	
Roundabouts:						
Grand	(G)	F	P	Y	(N)	
Yacht Club	(G)	F	P	Y	(N)	
Features:						
Wall/Rail	(G)	F	P	Y	(N)	
Development Sign	(G)	F	P	Y	(N)	

G=Good F=Fair P=Poor Y=Yes N=No

STREETS - Weekly Site Inspection Report No.

STR 2012- 1111

Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

Gates:					
Cooling Pond – West	(G)	F	P	Y	(N)
Cooling Pond – North	(G)	F	P	Y	(N)
Lot #12	(G)	F	P	Y	(N)
Lot #10 – West	(G)	F	P	Y	(N)
Lot #10 – North	(G)	F	P	Y	(N)
BNSF – A	(G)	F	P	Y	(N)
OSW02	(G)	F	P	Y	(N)
Grand – East	(G)	F	P	Y	(N)
Grand – West	(G)	F	P	Y	(N)
Cascade	(G)	F	P	Y	(N)
Yacht Club – North	(G)	F	P	Y	(N)
Yacht Club – South	(G)	F	P	Y	(N)

Other:					
Roundabouts	(G)	F	P	Y	(N)
Jersey Barriers	(G)	F	P	Y	(N)
Baltimore Bridge	(G)	F	P	Y	(N)

Misc. notes:

I certify that this report is true, accurate and complete, to the best of my knowledge and belief.

INSPECTOR: DATE: 11-16-2012 SIGNED: Harry J. Slough

REVIEWED: DATE: 11/17/12 SIGNED: [Signature]



GENERAL SITE

Weekly Site Inspection Report No. **GEN 2012-1118**

Week of: **11/ 18 – 24, 2012**

Inspector: **JEN RUSHER**

Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	OVERAL CONDITION			NEED REPAIR?		COMMENTS/OBSERVATIONS
Gates:						(See "Streets" Report for additional gates)
Slag Peninsula	<u>G</u>	F	P	Y	<u>N</u>	
52 nd Street	<u>G</u>	F	P	Y	<u>N</u>	
54 th Street (electric)	<u>G</u>	F	P	Y	<u>N</u>	
Signage:						
Gates	<u>G</u>	F	P	Y	<u>N</u>	
Perimeter	<u>G</u>	F	P	Y	<u>N</u>	
Safety	<u>G</u>	F	P	Y	<u>N</u>	
Security:						
Locks	<u>G</u>	F	P	Y	<u>N</u>	
Alarms	<u>G</u>	F	P	Y	<u>N</u>	
Cameras	G	<u>F</u>	P	Y	<u>N</u>	
BMPs:						
Silt Fence	<u>G</u>	F	P	Y	<u>N</u>	
Waddles	G	F	P	Y	N	
Nursery:						
Plants	<u>G</u>	F	P	Y	<u>N</u>	
Sprinkler	<u>G</u>	F	P	Y	N	NEEDS TO BE WINTERIZED
Weeds	G	<u>F</u>	P	Y	N	
Stockpiles:						
Envirotac II	G	F	P	Y	N	
Plastic	G	F	P	Y	N	
Packed	<u>G</u>	F	P	Y	<u>N</u>	
Grass	G	F	P	Y	N	
Dust:						
Traffic areas	<u>G</u>	F	P	Y	<u>N</u>	
Excavation area	<u>G</u>	F	P	Y	<u>N</u>	
Fencing:						
Site Perimeter	<u>G</u>	F	P	Y	<u>N</u>	
Zone Separation	<u>G</u>	F	P	Y	<u>N</u>	
CRZs:						
Area D	<u>G</u>	F	P	Y	<u>N</u>	
(Other)	G	F	P	Y	N	
Haul Roads:						
Main Street	<u>G</u>	F	P	Y	<u>N</u>	
Grand Ave.	<u>G</u>	F	P	Y	<u>N</u>	
OCF road	<u>G</u>	F	P	Y	<u>N</u>	
Metr.Pks-Peninsula	<u>G</u>	F	P	Y	<u>N</u>	

G=Good F=Fair P=Poor Y=Yes N=No

GENERAL SITE - Weekly Site Inspection Report No. GEN 2012- 1118
Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

Misc. notes:

Air Monitoring:

Day of Week		Hi-Vol QTY	Personal QTY	Portable QTY	Air Monitoring Notes
Sun	18	Ø	Ø	Ø	NO RA ACTIVITY
Mon	19	Ø	Ø	Ø	NO RA ACTIVITY
Tue	20	Ø	Ø	Ø	NO RA ACTIVITY
Wed	21	Ø	Ø	Ø	NO RA ACTIVITY
Thu	22	Ø	Ø	Ø	NO RA ACTIVITY/HOLIDAY THANKSGIVING
Fri	23	Ø	Ø	Ø	NO RA ACTIVITY
Sat	24	Ø	Ø	Ø	NO RA ACTIVITY

WEATHER:

Day of Week		(LOW/HIGH)	Summary of Weather Conditions
Sun	18	42°/49°	SOUTH WIND 5MPH/GUST 23MPH, PRECIP. Ø.32" (SCATTERED)
Mon	19	46°/50°	SSW WIND 10MPH/GUST 18MPH, PRECIP. 1.84" (ALL DAY)
Tue	20	43°/51°	SSW WIND 3MPH/GUST 21MPH, PRECIP. Ø.18" (SCATTERED)
Wed	21	39°/47°	SSW WIND 7MPH/GUST 17MPH, PRECIP. Ø.39" (SCATTERED)
Thu	22	35°/46°	SSW WIND 2MPH/GUST 8MPH, PRECIP. Ø.42" (MIDNIGHT)
Fri	23	42°/49°	SSW WIND 2MPH/GUST 8MPH, PRECIP. 1.09" (ALL DAY SCATTERED)
Sat	24	40°/47°	SW WIND 1MPH/GUST 7MPH, PRECIP. Ø.02 (MORNING)

I certify that this report is true, accurate and complete, to the best of my knowledge and belief.

INSPECTOR: DATE: 11/26/2012

SIGNED: 

H&S OFFICER: DATE: 11/27/12

SIGNED: 



TEMPORARY IMPERMEABLE CAP

Weekly Site Inspection Report No. TIC 2012- 1118

Week of: 11/18-11/24, 2012 Inspector: PAT WILBER

Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	OVERALL CONDITION			CLEAN?		NEED REPAIR?		COMMENTS/OBSERVATIONS
Area A								
Geomembrane	G	F	P	Y	N	Y	N	
Gravel Cover	G	F	P	Y	N	Y	N	
Edge Anchorage	G	F	P	Y	N	Y	N	
Drainage	(G)	F	P	(Y)	N	Y	(N)	
	G	F	P	Y	N	Y	N	
Area B								
Geomembrane	G	F	P	Y	N	Y	N	
Gravel Cover	G	F	P	Y	N	Y	N	
Edge Anchorage	G	F	P	Y	N	Y	N	
Drainage	(G)	F	P	(Y)	N	Y	(N)	Slight standing water
	G	F	P	Y	N	Y	N	
Area C								
Geomembrane	G	F	P	Y	N	Y	N	
Gravel Cover	G	F	P	Y	N	Y	N	
Edge Anchorage	G	F	P	Y	N	Y	N	
Drainage	G	F	P	Y	N	Y	N	
	(G)	F	P	(Y)	N	Y	(N)	standing water/some overflow
Area D								
Geomembrane	G	F	P	Y	N	Y	N	
Gravel Cover	G	F	P	Y	N	Y	N	
Edge Anchorage	G	F	P	Y	N	Y	N	
Drainage	G	F	P	Y	N	Y	N	
	(G)	F	P	(Y)	N	(Y)	N	water near stock pile slab
Area E								
Geomembrane	G	F	P	Y	N	Y	N	
Gravel Cover	G	F	P	Y	N	Y	N	
Edge Anchorage	G	F	P	Y	N	Y	N	
Drainage	G	F	P	Y	N	Y	N	
	(G)	F	P	(Y)	N	Y	(N)	standing water/some overflow to water wall
Area F								
Geomembrane	G	F	P	Y	N	Y	N	
Gravel Cover	G	F	P	Y	N	Y	N	
Edge Anchorage	G	F	P	Y	N	Y	N	
Drainage	G	F	P	Y	N	Y	N	
	(G)	F	P	(Y)	N	Y	(N)	water pumped to area G
Area G								
Geomembrane	G	F	P	Y	N	Y	N	
Gravel Cover	G	F	P	Y	N	Y	N	
Edge Anchorage	G	F	P	Y	N	Y	N	
Drainage	G	F	P	Y	N	Y	N	
	(G)	F	P	(Y)	N	Y	(N)	water pumped to area I

G=Good F=Fair P=Poor Y=Yes N=No

TEMPORARY CAP - Weekly Site Inspection Report No. 2012-1118
Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	OVERAL CONDITION			CLEAN?		NEED REPAIR?		COMMENTS/OBSERVATIONS
Area H								
Geomembrane	G	F	P	Y	N	Y	N	
Gravel Cover	G	F	P	Y	N	Y	N	
Edge Anchorage	G	F	P	Y	N	Y	N	
Drainage	G	F	P	Y	N	Y	N	
	(G)	F	P	(Y)	N	Y	(N)	slight standing water
Area I								
Geomembrane	G	F	P	Y	N	Y	N	
Gravel Cover	G	F	P	Y	N	Y	N	
Edge Anchorage	G	F	P	Y	N	Y	N	
Drainage	G	F	P	Y	N	Y	N	
	(G)	F	P	(Y)	N	Y	(N)	water collected at sump hole
Area J								
Geomembrane	G	F	P	Y	N	Y	N	
Gravel Cover	G	F	P	Y	N	Y	N	
Edge Anchorage	G	F	P	Y	N	Y	N	
Drainage	G	F	P	Y	N	Y	N	
	(G)	F	P	(Y)	N	Y	(N)	slight standing water

Misc. notes: RAIN EVENT ON 11/19 CAUSED WATER TO BREACH SILT FENCES ON TIC E, C, + I.

I certify that this report is true, accurate and complete, to the best of my knowledge and belief.

INSPECTOR: DATE: 11/21/12

SIGNED:

REVIEWED: DATE: 11/26/12

SIGNED:



GENERAL SITE

Weekly Site Inspection Report No. **GEN 2012-1125**

Week of: **11/ 25 – 12/ 1, 2012**

Inspector: **TIM RUSHER**

Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	OVERAL CONDITION			NEED REPAIR?		COMMENTS/OBSERVATIONS
Gates:						(See "Streets" Report for additional gates)
Slag Peninsula	G	F	P	Y	N	
52 nd Street	G	F	P	Y	N	
54 th Street (electric)	G	F	P	Y	N	
Signage:						
Gates	G	F	P	Y	N	
Perimeter	G	F	P	Y	N	
Safety	G	F	P	Y	N	
Security:						
Locks	G	F	P	Y	N	
Alarms	G	F	P	Y	N	
Cameras	G	F	P	Y	N	
BMPs:						
Silt Fence	G	F	P	Y	N	
Waddles	G	F	P	Y	N	
Nursery:						
Plants	G	F	P	Y	N	
Sprinkler	G	F	P	Y	N	STILL NEED TO BE WINTERIZED
Weeds	G	F	P	Y	N	
Stockpiles:						
Envirotac II	G	F	P	Y	N	
Plastic	G	F	P	Y	N	
Packed	G	F	P	Y	N	
Grass	G	F	P	Y	N	
Dust:						
Traffic areas	G	F	P	Y	N	
Excavation area	G	F	P	Y	N	
Fencing:						
Site Perimeter	G	F	P	Y	N	
Zone Separation	G	F	P	Y	N	
CRZs:						
Area D	G	F	P	Y	N	
(Other)	G	F	P	Y	N	
Haul Roads:						
Main Street	G	F	P	Y	N	
Grand Ave.	G	F	P	Y	N	
OCF road	G	F	P	Y	N	
Metr.Pks-Peninsula	G	F	P	Y	N	

G=Good F=Fair P=Poor Y=Yes N=No

GENERAL SITE - Weekly Site Inspection Report No. GEN 2012- 1125
Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

Misc. notes:

Air Monitoring:

Day of Week	Hi-Vol QTY	Personal QTY	Portable QTY	Air Monitoring Notes
Sun 25	0	0	0	NO RA ACTIVITY (WATERWALK TILE)
Mon 26	3	0	0	WATERWALK PLAZA (LINER) / 2A (DRIVEWAY GRADING)
Tue 27	3	0	1	T.I.C. I (GRADING) / 2A (DRIVEWAY GRADING) / 2B (CONCRETE POUR) / 2A (WATERPROOF RET. WALL)
Wed 28	3	0	1	2A (DRIVEWAY GRADING) (WATER MAIN CONJUNCTION)
Thu 29	3	0	1	WATERWALK (FILL + GRADING) / MATERIAL MANAGEMENT
Fri 30	3	0	1	MAIN STREET (STORM DRAINS UTILITY TRENCH)
Sat 12/1	0	0	0	NO RA ACTIVITY

WEATHER:

Day of Week	(LOW/HIGH)	Summary of Weather Conditions
Sun 25	35°/44°	NNE WIND 4MPH/GUST 12MPH, NO PRECIPITATION
Mon 26	37°/47°	NNE WIND 3MPH/GUST 10MPH, NO PRECIPITATION
Tue 27	33°/47°	SW WIND 1MPH/GUST 8MPH, NO PRECIPITATION
Wed 28	38°/44°	SW WIND 1MPH/GUST 9MPH, PRECIP. 0.11" (AFTERNOON/PM)
Thu 29	42°/54°	SSW WIND 2MPH/GUST 14MPH, PRECIP. 0.08" (MORN - NOON)
Fri 30	44°/57°	SSW WIND 4MPH/GUST 11MPH, PRECIP. 1.23" (SCATTERED)
Sat 12/1	45°/54°	SSW WIND 7MPH/GUST 24MPH, PRECIP. 0.22" (MORNING)

I certify that this report is true, accurate and complete, to the best of my knowledge and belief.

INSPECTOR: DATE: 12/3/2012 SIGNED: TB

H&S OFFICER: DATE: 12/14/12 12/14/12 SIGNED: [Signature]



STACK HILL

Weekly Site Inspection Report No. SH 2012- 1125

Week of: 11 125 - 11 134, 2012

Inspector: Harry Slaughter

Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	OVERAL CONDITION			NEED REPAIR?		COMMENTS/OBSERVATIONS
Streets:						
Villard St.	G	F	P	Y	N	
Court St.	G	F	P	Y	N	
Commercial St.	G	F	P	Y	N	
Baltimore St.	G	F	P	Y	N	
49 th St.	G	F	P	Y	N	
Tract A (private)	G	F	P	Y	N	
Lot #18 (private)	G	F	P	Y	N	
View Point:						
Parking Pad	G	F	P	Y	N	
Gravel Path	G	F	P	Y	N	
Display Boards	G	F	P	Y	N	
Storm Drains Clean:						
Catch Basins	G	F	P	Y	N	Cleaned Drains
BMPs:						
Hydroseed	G	F	P	Y	N	
(Other)	G	F	P	Y	N	
Sidewalks:						
Damage	G	F	P	Y	N	
Weeds	G	F	P	Y	N	
Signage:						
Perimeter "Advisory"	G	F	P	Y	N	
No Trespass (Tunnel Hillside)	G	F	P	Y	N	
Dust:						
Excavation Areas	G	F	P	Y	N	
Fencing:						
4' Site Perimeter	G	F	P	Y	N	Need to be replaced
6' Temp. Panels	G	F	P	Y	N	
Street Lights:						
Condition	G	F	P	Y	N	Street; lite post down on Villard St. (CRACKED)
Site Markers:						
Lot Numbers	G	F	P	Y	N	
Utilities	G	F	P	Y	N	
Survey Stakes	G	F	P	Y	N	
Retaining Walls:						
Baltimore	G	F	P	Y	N	
Lots 22/23/24	G	F	P	Y	N	

G=Good F=Fair P=Poor Y=Yes N=No

Misc. notes:

I certify that this report is true, accurate and complete, to the best of my knowledge and belief.

INSPECTOR: DATE: 11-30-2012

SIGNED: Harry J. Slaughter

H&S OFFICER: DATE: 12/3/12

SIGNED: [Signature]



STREETS

Weekly Site Inspection Report No. STR 2012- 1125

Week of: 11 125 - 11/30, 2012

Inspector: Harry Slaughter

Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	OVERALL CONDITION	NEED REPAIR?	COMMENTS/OBSERVATIONS
Streets:			
Surface	G F P Y N		
Paint	G F P Y N		
Splitter Islands	G F P Y N		
Barricades	G F P Y N		
Signage:			
Trespass	G F P Y N		
Advisory	G F P Y N		
Traffic	G F P Y N		
Marketing	G F P Y N		
Street Lights:			
Ruston Way	G F P Y N		
51 st Street	G F P Y N		
Baltimore	G F P Y N		
Yacht Club	G F P Y N		
Junction Boxes	G F P Y N		
Storm Drains:			
Curb/Gutter	G F P Y N		
CBs	G F P Y N		
Filtreras	G F P Y N		
Sidewalks:			
Paint	G F P Y N		
Crossings	G F P Y N		
Bollards	G F P Y N		
Landscaping:			
Trees	G F P Y N		
Plants	G F P Y N		
Sprinkler	G F P Y N		
Bark/Mulch	G F P Y N		
Roundabouts:			
Grand	G F P Y N		
Yacht Club	G F P Y N		
Features:			
Wall/Rail	G F P Y N		
Development Sign	G F P Y N		

G=Good F=Fair P=Poor Y=Yes N=No

STREETS - Weekly Site Inspection Report No.STR 2012- 1125**Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)**

Gates:					
Cooling Pond – West	G	F	P	Y	N
Cooling Pond – North	G	F	P	Y	N
Lot #12	G	F	P	Y	N
Lot #10 – West	G	F	P	Y	N
Lot #10 – North	G	F	P	Y	N
BNSF – A	G	F	P	Y	N
OSW02	G	F	P	Y	N
Grand – East	G	F	P	Y	N
Grand – West	G	F	P	Y	N
Cascade	G	F	P	Y	N
Yacht Club – North	G	F	P	Y	N
Yacht Club – South	G	F	P	Y	N

Other:					
Roundabouts	G	F	P	Y	N
Jersey Barriers	G	F	P	Y	N
Baltimore Bridge	G	F	P	Y	N

Misc. notes:

I certify that this report is true, accurate and complete, to the best of my knowledge and belief.

INSPECTOR: DATE:

11-30-2012

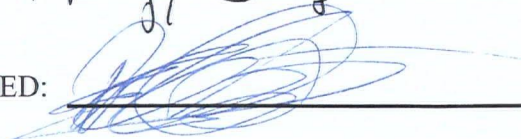
SIGNED:

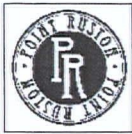


REVIEWED: DATE:

12/3/12

SIGNED:





TEMPORARY IMPERMEABLE CAP

Weekly Site Inspection Report No. TIC 2012-1125
 Week of: 11/125-12/01, 2012 Inspector: PAT WILBER

Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	OVERALL CONDITION			CLEAN?		NEED REPAIR?		COMMENTS/OBSERVATIONS
Area A								
Geomembrane	G	F	P	Y	N	Y	N	
Gravel Cover	G	F	P	Y	N	Y	N	
Edge Anchorage	G	F	P	Y	N	Y	N	
Drainage	G	F	P	Y	N	Y	N	
	(G)	F	P	(Y)	N	Y	(N)	
Area B								
Geomembrane	G	F	P	Y	N	Y	N	
Gravel Cover	G	F	P	Y	N	Y	N	
Edge Anchorage	G	F	P	Y	N	Y	N	
Drainage	G	F	P	Y	N	Y	N	
	(G)	F	P	(Y)	N	Y	(N)	
Area C								
Geomembrane	G	F	P	Y	N	Y	N	
Gravel Cover	G	F	P	Y	N	Y	N	
Edge Anchorage	G	F	P	Y	N	Y	N	
Drainage	G	F	P	Y	N	Y	N	
	(G)	F	P	(Y)	N	Y	(N)	Some standing water
Area D								
Geomembrane	G	F	P	Y	N	Y	N	
Gravel Cover	G	F	P	Y	N	Y	N	
Edge Anchorage	G	F	P	Y	N	Y	N	
Drainage	G	F	P	Y	N	Y	N	
	(G)	F	P	(Y)	N	Y	(N)	Some standing water
Area E								
Geomembrane	G	F	P	Y	N	Y	N	
Gravel Cover	G	F	P	Y	N	Y	N	
Edge Anchorage	G	F	P	Y	N	Y	N	
Drainage	G	F	P	Y	N	Y	N	
	(G)	F	P	(Y)	N	Y	(N)	Some standing water
Area F								
Geomembrane	G	F	P	Y	N	Y	N	
Gravel Cover	G	F	P	Y	N	Y	N	
Edge Anchorage	G	F	P	Y	N	Y	N	
Drainage	G	F	P	Y	N	Y	N	
	(G)	F	P	(Y)	N	Y	(N)	water in collection trench pumped to G
Area G								
Geomembrane	G	F	P	Y	N	Y	N	
Gravel Cover	G	F	P	Y	N	Y	N	
Edge Anchorage	G	F	P	Y	N	Y	N	
Drainage	G	F	P	Y	N	Y	N	
	(G)	F	P	(Y)	N	Y	(N)	water in collection trench pumped to I

G=Good F=Fair P=Poor Y=Yes N=No

TEMPORARY CAP - Weekly Site Inspection Report No. 2012- 11 25
Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	OVERAL CONDITION			CLEAN?		NEED REPAIR?		COMMENTS/OBSERVATIONS
Area H								
Geomembrane	G	F	P	Y	N	Y	N	
Gravel Cover	G	F	P	Y	N	Y	N	
Edge Anchorage	G	F	P	Y	N	Y	N	
Drainage	G	F	P	Y	N	Y	N	
	(G)	F	P	(Y)	N	Y	(N)	
Area I								
Geomembrane	G	F	P	Y	N	Y	N	
Gravel Cover	G	F	P	Y	N	Y	N	
Edge Anchorage	G	F	P	Y	N	Y	N	
Drainage	G	F	P	Y	N	Y	N	
	(G)	F	P	(Y)	N	Y	(N)	pumped water from F+G going to sump
Area J								
Geomembrane	G	F	P	Y	N	Y	N	
Gravel Cover	G	F	P	Y	N	Y	N	
Edge Anchorage	G	F	P	Y	N	Y	N	
Drainage	G	F	P	Y	N	Y	N	
	(G)	F	P	(Y)	N	Y	(N)	water draining to sump area as expected

Misc. notes:

I certify that this report is true, accurate and complete, to the best of my knowledge and belief.

INSPECTOR: DATE: 12/3/12

SIGNED: 

REVIEWED: DATE: 12/3/12

SIGNED: 

Monthly Report 198, November 2012
Operable Unit 02
Asarco Tacoma Smelter Site

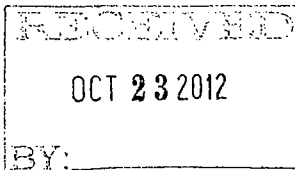
OCF
LEACHATE
SAMPLING
DATA

Reference	Date	Description
Analysis	10/04/12	Spectra Labs Project # 2012100147



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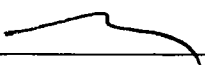
10/18/2012

Point Ruston
5219 N. Shirley St.,
Suite 100
Tacoma, WA 98407

Project: Tacoma Smelter
Client ID: TSM101204
Sample Matrix: Water
Date Sampled: 10/04/2012
Date Received: 10/04/2012
Spectra Project: 2012100147
Spectra Number: 1

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>
Arsenic	4.72	mg/L	EPA 200.7

SPECTRA LABORATORIES



Steve Hibbs, Laboratory Manager

a6/scj



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October 18, 2012

Point Ruston
5219 N. Shirley St.
Suite 100
Tacoma, WA 98407

Units: mg/L
Spectra Project: 2012100147
Applies to Spectra #'s 1

QUALITY CONTROL RESULTS

ICP Metals - EPA Method 200.7 - Water

Method Blank

Date Digested: 10/18/2012 Date Analyzed: 10/18/2012

Element	CAS #	Result
Arsenic	7440-38-2	< 0.05

Blank Spike (LCS)

Date Digested: 10/18/2012 Date Analyzed: 10/18/2012

Element	Spike Added	LCS Conc.	LCS %Rec
Arsenic	1.0	0.977	97.7

LCS Recovery limits 85-115%

Matrix Spike/Matrix Spike Duplicate (MS/MSD)

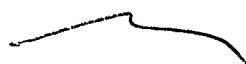
Date Digested: 10/16/2012 Date Analyzed: 10/16/2012
Sample Spiked: 2012100174-1

Element	Sample Conc.	Spike Conc.	MS Conc.	MS %Rec	MSD Conc.	MSD %Rec	RPD
Arsenic	0.000	1.0	1.136	113.6	1.146	114.6	0.9

Recovery Limits 75-125%

RPD Limit 20

Spectra Laboratories



Steve Hibbs
Laboratory Manager

2012100147

5219 N. Shirley Street, Suite 100, Tacoma, WA 98407
Phone: 253-752-2185 Fax: 253-752-7083

[illegible]

Monthly Report 198, November 2012
Operable Unit 02
Asarco Tacoma Smelter Site

PERIMETER
AIR
MONITORING
DATA
(HIGH VOLUME)

Reference	Date	Description
Real-Time	11/16/12	Spectra Labs Project # 2012110104 EPAM5000 47mm filter analysis 10/29 through 11/03
Real-Time	11/26/12	Spectra Labs Project # 2012110247 EPAM5000 47mm filter analysis 11/05 through 11/09
Real-Time	12/03/12	Spectra Labs Project # 2012110420 EPAM5000 47mm filter analysis 11/12 through 11/16
Hi-Vol	11/05 – 11/16	IML Air Science Particulate Network Summary Reports for TSP-As-Pb



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11/16/2012

Point Ruston
5219 N. Shirley St.,
Suite 100
Tacoma, WA 98407

Project: Air Monitoring 2A
Date Received: 11/05/2012
Spectra Project: 2012110104

<u>Client ID</u>	<u>Spectra #</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Matrix</u>	<u>Date Sampled</u>
4-175002	1	TSP	< 100	µg/m3	Gravimetric	Filter	10/29/2012
4-175002	1	Arsenic	< 0.004	µg/m3	SW846 6020A	Filter	10/29/2012
4-175002	1	Lead	< 0.004	µg/m3	SW846 6020A	Filter	10/29/2012
4-175001	2	TSP	< 100	µg/m3	Gravimetric	Filter	10/30/2012
4-175001	2	Arsenic	< 0.004	µg/m3	SW846 6020A	Filter	10/30/2012
4-175001	2	Lead	0.005	µg/m3	SW846 6020A	Filter	10/30/2012
4-175000	3	TSP	< 100	µg/m3	Gravimetric	Filter	10/31/2012
4-175000	3	Arsenic	< 0.004	µg/m3	SW846 6020A	Filter	10/31/2012
4-175000	3	Lead	< 0.004	µg/m3	SW846 6020A	Filter	10/31/2012
4-174999	4	TSP	< 100	µg/m3	Gravimetric	Filter	11/01/2012
4-174999	4	Arsenic	< 0.004	µg/m3	SW846 6020A	Filter	11/01/2012
4-174999	4	Lead	< 0.004	µg/m3	SW846 6020A	Filter	11/01/2012
4-174997	5	TSP	< 100	µg/m3	Gravimetric	Filter	11/02/2012
4-174997	5	Arsenic	< 0.004	µg/m3	SW846 6020A	Filter	11/02/2012
4-174997	5	Lead	0.006	µg/m3	SW846 6020A	Filter	11/02/2012
4-174996	6	TSP	< 100	µg/m3	Gravimetric	Filter	11/03/2012
4-174996	6	Arsenic	< 0.004	µg/m3	SW846 6020A	Filter	11/03/2012
4-174996	6	Lead	0.004	µg/m3	SW846 6020A	Filter	11/03/2012

SPECTRA LABORATORIES



Steve Hibbs, Laboratory Manager

a8/scj

201210104

5219 N. Shirley Street, Suite 100, Tacoma, WA 98407
Phone: 253-752-2185 Fax: 253-752-7083

COC Form - 7/12



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11/26/2012

Point Ruston
5219 N. Shirley St.,
Suite 100
Tacoma, WA 98407

Project: Air Monitoring 2A
Date Received: 11/12/2012
Spectra Project: 2012110247

<u>Client ID</u>	<u>Spectra #</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Matrix</u>	<u>Date Sampled</u>
4-174995	1	TSP	109	µg/m3	Gravimetric	Air Cassette	11/05/2012
4-174995	1	Arsenic	< 0.004	µg/m3	SW846 6020A	Air Cassette	11/05/2012
4-174995	1	Lead	0.005	µg/m3	SW846 6020A	Air Cassette	11/05/2012
4-174994	2	TSP	< 100	µg/m3	Gravimetric	Air Cassette	11/06/2012
4-174994	2	Arsenic	< 0.004	µg/m3	SW846 6020A	Air Cassette	11/06/2012
4-174994	2	Lead	0.011	µg/m3	SW846 6020A	Air Cassette	11/06/2012
4-174993	3	TSP	< 100	µg/m3	Gravimetric	Air Cassette	11/07/2012
4-174993	3	Arsenic	< 0.004	µg/m3	SW846 6020A	Air Cassette	11/07/2012
4-174993	3	Lead	0.006	µg/m3	SW846 6020A	Air Cassette	11/07/2012
4-174990	4	TSP	109	µg/m3	Gravimetric	Air Cassette	11/08/2012
4-174990	4	Arsenic	< 0.004	µg/m3	SW846 6020A	Air Cassette	11/08/2012
4-174990	4	Lead	0.005	µg/m3	SW846 6020A	Air Cassette	11/08/2012
4-174989	5	TSP	< 100	µg/m3	Gravimetric	Air Cassette	11/09/2012
4-174989	5	Arsenic	< 0.004	µg/m3	SW846 6020A	Air Cassette	11/09/2012
4-174989	5	Lead	0.008	µg/m3	SW846 6020A	Air Cassette	11/09/2012

SPECTRA LABORATORIES



Steve Hibbs, Laboratory Manager

a8/scj



SPECTRA Laboratories

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Point Ruston
5219 N. Shirley St.
Suite 100
Tacoma, WA 98407

Project: Air Monitoring
Spectra Project: 2012110247
Final Weights in Grams

Spectra #	Control Filter Wt., g	Test Filter Wt., g	Wt. Diff., g	Flow		Particulate Conc., ug/m ³
				Rate, L/min	Time, min.	
1	0.0652	0.0657	0.0005	3.2	1432	109
2	0.0645	0.0647	0.0002	3.2	1443	43
3	0.0649	0.0652	0.0003	3.2	1423	66
4	0.0653	0.0658	0.0005	3.2	1439	109
5	0.0650	0.0650	0.0000	3.2	1435	0





SPECTRA Laboratories

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12/03/2012

Point Ruston
5219 N. Shirley St.,
Suite 100
Tacoma, WA 98407

Project: Air Monitoring 2A
Date Received: 11/19/2012
Spectra Project: 2012110420

<u>Client ID</u>	<u>Spectra #</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Matrix</u>	<u>Date Sampled</u>
4-174988	1	TSP	< 100	µg/m3	Gravimetric	Filter	11/12/2012
4-174988	1	Arsenic	< 0.004	µg/m3	SW846 6020A	Filter	11/12/2012
4-174988	1	Lead	< 0.004	µg/m3	SW846 6020A	Filter	11/12/2012
4-174987	2	TSP	< 100	µg/m3	Gravimetric	Filter	11/13/2012
4-174987	2	Arsenic	< 0.004	µg/m3	SW846 6020A	Filter	11/13/2012
4-174987	2	Lead	0.006	µg/m3	SW846 6020A	Filter	11/13/2012
4-174985	3	TSP	< 100	µg/m3	Gravimetric	Filter	11/14/2012
4-174985	3	Arsenic	< 0.004	µg/m3	SW846 6020A	Filter	11/14/2012
4-174985	3	Lead	0.005	µg/m3	SW846 6020A	Filter	11/14/2012
4-174984	4	TSP	< 100	µg/m3	Gravimetric	Filter	11/15/2012
4-174984	4	Arsenic	< 0.004	µg/m3	SW846 6020A	Filter	11/15/2012
4-174984	4	Lead	0.007	µg/m3	SW846 6020A	Filter	11/15/2012
4-174983	5	TSP	< 100	µg/m3	Gravimetric	Filter	11/16/2012
4-174983	5	Arsenic	< 0.004	µg/m3	SW846 6020A	Filter	11/16/2012
4-174983	5	Lead	0.010	µg/m3	SW846 6020A	Filter	11/16/2012

SPECTRA LABORATORIES



Steve Hibbs, Laboratory Manager
a8/scj



SPECTRA Laboratories

2221 Ross Way • Tacoma, WA 98421 • (253) 272-4850 • Fax (253) 572-9838 • www.spectra-lab.com

Point Ruston
5219 N. Shirley St.
Suite 100
Tacoma, WA 98407

Project: Air Monitoring
Spectra Project: 2012110420
Final Weights in Grams

Spectra #	Control Filter Wt., g	Test Filter Wt., g	Wt. Diff., g	Flow		Particulate Conc., ug/m ³
				Rate, L/min	Time, min.	
1	0.0648	0.0651	0.0003	3.2	1431	66
2	0.0649	0.0652	0.0003	3.2	1434	65
3	0.0650	0.0652	0.0002	3.2	1436	44
4	0.0648	0.0650	0.0002	3	1484	45
5	0.0647	0.0647	0.0000	2.75	1412	0

COC Form - 7/12

Point Ruston
Particulate Network Summary - TSP
November 05, 2012 thru November 12, 2012

Filter ID	Sampler ID	Runday	Tare Mass	Exposed Mass	Net Mass	Run Time	Std. Volume	Act. Volume	Std. Conc.	Act. Conc.	Comments
			grams	grams	grams	minutes	m ³	m ³	µg/m ³	µg/m ³	
513840	OCF NW Corner	11/05/12	4.4764	4.5166	0.0402	950	1399	1322	29	30	
513843	OCF NW Corner	11/06/12	4.4707	4.5009	0.0302	810	1181	1118	26	27	
514064	OCF NW Corner	11/07/12	4.7748	4.8281	0.0533	1252	1621	1529	33	35	
514067	OCF NW Corner	11/08/12	4.8024	4.8361	0.0337	1427	1868	1756	18	19	
514070	OCF NW Corner	11/09/12	4.8055	4.8687	0.0632	1427	1928	1804	33	35	
513839	OCF Vault#1	11/05/12	4.4679	4.5300	0.0621	1423	2477	2341	25	27	
514060	OCF Vault#1	11/06/12	4.5646	4.5904	0.0258	1443	2389	2263	11	11	
514063	OCF Vault#1	11/07/12	4.7899	4.8314	0.0415	1425	2268	2139	18	19	
514066	OCF Vault#1	11/08/12	4.7953	4.8257	0.0304	1438	2289	2152	13	14	
514069	OCF Vault#1	11/09/12	4.8128	4.8728	0.0600	1425	2279	2132	26	28	
513841	South Gate	11/05/12	4.4689	4.5371	0.0682	1428	2112	1996	32	34	
514061	South Gate	11/06/12	4.7716	4.8003	0.0287	1435	1950	1847	15	16	
514062	South Gate	11/07/12	4.7803	4.8198	0.0395	1414	1940	1829	20	22	
514065	South Gate	11/08/12	4.7863	4.8281	0.0418	1435	1979	1861	21	22	
514068	South Gate	11/09/12	4.8088	4.8699	0.0611	1435	1969	1842	31	33	
514077	Control	11/12/12	4.8213	4.8200	-0.0013						

Point Ruston
Particulate Network Summary - As and Pb
November 05, 2012 thru November 12, 2012

Filter ID	Sampler ID	Runday	Act. Volume	Arsenic	Act. Conc.	Lead	Act. Conc.	Comments
			m ³	µg/Filter	µg/m ³ As	µg/Filter	µg/m ³ Pb	
513840	OCF NW Corner	11/05/12	1322	<2.00	<0.001	2.76	0.002	
513843	OCF NW Corner	11/06/12	1118	3.49	0.003	4.09	0.003	
514064	OCF NW Corner	11/07/12	1529	5.82	0.003	5.90	0.003	
514067	OCF NW Corner	11/08/12	1756	3.26	0.001	4.43	0.002	
514070	OCF NW Corner	11/09/12	1804	7.64	0.004	12.4	0.006	
513839	OCF Vault#1	11/05/12	2341	4.30	0.001	6.01	0.002	
514060	OCF Vault#1	11/06/12	2263	<2.00	<0.001	3.46	0.001	
514063	OCF Vault#1	11/07/12	2139	6.47	0.003	5.76	0.002	
514066	OCF Vault#1	11/08/12	2152	3.51	0.001	5.14	0.002	
514069	OCF Vault#1	11/09/12	2132	6.78	0.003	12.0	0.005	
513841	South Gate	11/05/12	1996	3.18	0.001	4.78	0.002	
514061	South Gate	11/06/12	1847	<2.00	<0.001	5.11	0.002	
514062	South Gate	11/07/12	1829	3.24	0.001	5.60	0.003	
514065	South Gate	11/08/12	1861	3.12	0.001	5.40	0.002	
514068	South Gate	11/09/12	1842	6.92	0.003	12.9	0.007	
514077	Control	11/12/12		<2.00	N/A	<2.00	N/A	

Point Ruston
Particulate Network Summary - TSP
November 12, 2012 thru November 16, 2012

Filter ID	Sampler ID	Runday	Tare Mass	Exposed Mass	Net Mass	Run Time	Std. Volume	Act. Volume	Std. Conc.	Act. Conc.	Comments
			grams	grams	grams	minutes	m ³	m ³	µg/m ³	µg/m ³	
514073	OCF NW Corner	11/12/12	4.8298	4.8448	0.0150	1421	1921	1808	8	8	
514076	OCF NW Corner	11/13/12	4.8348	4.8591	0.0243	1432	1915	1800	13	14	
514080	OCF NW Corner	11/14/12	4.8378	4.8600	0.0222	1434	1918	1795	12	12	
514083	OCF NW Corner	11/15/12	4.5410	4.5888	0.0478	1480	2031	1894	24	25	
514086	OCF NW Corner	11/16/12	4.5076	4.5515	0.0439	1393	1902	1769	23	25	
514072	OCF Vault#1	11/12/12	4.8217	4.8381	0.0164	1430	2257	2125	7	8	
514075	OCF Vault#1	11/13/12	4.8068	4.8342	0.0274	1436	2265	2129	12	13	
514079	OCF Vault#1	11/14/12	4.8271	4.8496	0.0225	1435	2263	2119	10	11	
514082	OCF Vault#1	11/15/12	4.8327	4.8847	0.0520	1472	2323	2167	22	24	
514085	OCF Vault#1	11/16/12	4.5368	4.5833	0.0465	1431	2298	2138	20	22	
514071	South Gate	11/12/12	4.8083	4.8303	0.0220	1428	1930	1817	11	12	
514074	South Gate	11/13/12	4.8217	4.8515	0.0298	1431	1924	1808	15	16	
514078	South Gate	11/14/12	4.8231	4.8493	0.0262	1431	1934	1810	14	14	
514081	South Gate	11/15/12	4.8309	4.8827	0.0518	1478	1955	1824	26	28	
514084	South Gate	11/16/12	4.5451	4.5928	0.0477	1409	1914	1780	25	27	

Point Ruston
Particulate Network Summary - As and Pb
November 12, 2012 thru November 16, 2012

Filter ID	Sampler ID	Runday	Act. Volume	Arsenic	Act. Conc.	Lead	Act. Conc.	Comments
			m ³	µg/Filter	µg/m ³ As	µg/Filter	µg/m ³ Pb	
514073	OCF NW Corner	11/12/12	1808	<2.00	<0.001	<2.00	<0.001	
514076	OCF NW Corner	11/13/12	1800	<2.00	<0.001	9.83	0.005	
514080	OCF NW Corner	11/14/12	1795	<2.00	<0.001	7.38	0.004	
514083	OCF NW Corner	11/15/12	1894	5.56	0.002	11.7	0.006	
514086	OCF NW Corner	11/16/12	1769	9.06	0.005	27.4	0.015	
514072	OCF Vault#1	11/12/12	2125	<2.00	<0.001	<2.00	<0.001	
514075	OCF Vault#1	11/13/12	2129	3.13	0.001	10.8	0.005	
514079	OCF Vault#1	11/14/12	2119	3.17	0.001	8.99	0.004	
514082	OCF Vault#1	11/15/12	2167	7.91	0.003	22.0	0.010	
514085	OCF Vault#1	11/16/12	2138	5.10	0.002	18.8	0.008	
514071	South Gate	11/12/12	1817	<2.00	<0.001	<2.00	<0.001	
514074	South Gate	11/13/12	1808	<2.00	<0.001	8.47	0.004	
514078	South Gate	11/14/12	1810	4.02	0.002	9.92	0.005	
514081	South Gate	11/15/12	1824	4.92	0.002	11.6	0.006	
514084	South Gate	11/16/12	1780	6.21	0.003	22.9	0.012	

Monthly Report 198, November 2012
Operable Unit 02
Asarco Tacoma Smelter Site

METHANE
MONITORING
DATA

Reference	Date	Description
Bldg 2B	11/14/12	Gas Monitoring Data Form / Calibration Worksheet
Bldg 2B	Nov. 2012	Methane Monitoring – DATA LOG

Gas Monitoring Data Form / Calibration Worksheet

Project Name: Building 2B

Date of Sampling: 11/14/12

Name of Sample Collector: Pat Wilisok

Gas Meter Information

Manufacturer: Industrial Scientific Model: M40 / SP40 Serial Number: 0806049-984
 Factory/Service Center Calibration Date of Gas Monitor: November 1, 2011 Pump Rate of Gas Meter: .5 SCFH (0.25 LPM)

Calibration Canister Information

Canister I.D. Lot: MAL-463-2 Cyl: Calibration Gas: O₂, LEL, CO, H₂S, N Canister Exp.: 3/5/13

PRE-SAMPLE CALIBRATION:

Date: 11/14/12

Time: 8:45

Sensor SN	Sensor Type	Gas Type	Span Gas	Span Reserve	Passed/Failed	Alarm Low	Alarm High	Alarm TWA	Alarm STEL
806862459	Combustible-LEL	Methane	50	87	P				
805823354	Hydrogen Sulfide	Hydrogen Sulfide	25	45	P				
180339703081	Oxygen	Oxygen	19	30.3	P				

SAMPLING RECORD:

Temperature: 47.2 Barometric Pressure: 30.30 Ground Conditions: wet
 Precipitation: 0.0 Tidal Conditions: Low @ 10:00
 Wind Speed: SW Direction: 210 Other Relevant Conditions: _____

Location Well ID#	Sample Tube Purge (Y/N)	Start Time	Stop Time	Initial % LEL	Stabilized % LEL	% CH ₄ By Volume	% O ₂	H ₂ S (ppm)	Notes
2BW001	Y	9:04	9:14	0	0	0	20.9	0	
2BW002	Y	9:17	9:27	0	0	0	20.9	0	
2BW003	Y	9:30	9:40	0	0	0	19.9	0	
2BW004	Y	9:42	9:52	0	0	0	19.3	0	

Certification:

To the best of my knowledge, the information reported and statements made on this data submittal and attachments are true and correct.

Pat Wilisok
 SIGNATURE:

11/14/12
 DATE:

METHANE MONITORING - DATA LOG

Point Ruston, LLC

Building 2B

Period	Well Location	Date Time	Temperature °C	Hydrogen Sulfide			Oxygen Reading	Combustible LEL (Methane) Reading
				Reading	TWA	STEL		
1	Sync	11/14/2012 9:34	18	0	0	0	20.9	0
2	Sync	11/14/2012 9:36	19	0	0	0	20.9	0
3	Calibrate	11/14/2012 9:47	18	0	0	0	20.9	0
4	Calibrate	11/14/2012 9:49	19	0	0	0	20.9	0
5	2BW001	11/14/2012 10:05	19	0	0	0	20.9	0
5	2BW001	11/14/2012 10:06	19	0	0	0	20.9	0
5	2BW001	11/14/2012 10:07	19	0	0	0	20.9	0
5	2BW001	11/14/2012 10:08	19	0	0	0	20.9	0
5	2BW001	11/14/2012 10:09	19	0	0	0	20.9	0
5	2BW001	11/14/2012 10:10	18	0	0	0	20.9	0
5	2BW001	11/14/2012 10:11	18	0	0	0	20.9	0
5	2BW001	11/14/2012 10:12	18	0	0	0	20.9	0
5	2BW001	11/14/2012 10:13	17	0	0	0	20.9	0
5	2BW001	11/14/2012 10:14	17	0	0	0	20.9	0
5	2BW001	11/14/2012 10:15	17	0	0	0	20.9	0
6	2BW002	11/14/2012 10:18	15	0	0	0	21.1	0
6	2BW002	11/14/2012 10:19	15	0	0	0	20.6	0
6	2BW002	11/14/2012 10:20	15	0	0	0	20.6	0
6	2BW002	11/14/2012 10:21	15	0	0	0	20.9	0
6	2BW002	11/14/2012 10:22	14	0	0	0	20.9	0
6	2BW002	11/14/2012 10:23	14	0	0	0	20.9	0
6	2BW002	11/14/2012 10:24	14	0	0	0	20.9	0
6	2BW002	11/14/2012 10:25	14	0	0	0	20.9	0
6	2BW002	11/14/2012 10:26	14	0	0	0	20.9	0
6	2BW002	11/14/2012 10:27	14	0	0	0	20.9	0
6	2BW002	11/14/2012 10:28	13	0	0	0	21.1	0
7	2BW003	11/14/2012 10:31	12	0	0	0	21.5	0
7	2BW003	11/14/2012 10:32	13	0	0	0	19.9	0
7	2BW003	11/14/2012 10:33	13	0	0	0	19.9	0
7	2BW003	11/14/2012 10:34	13	0	0	0	20.2	0
7	2BW003	11/14/2012 10:35	13	0	0	0	20.1	0
7	2BW003	11/14/2012 10:36	13	0	0	0	19.9	0
7	2BW003	11/14/2012 10:37	12	0	0	0	20.0	0
7	2BW003	11/14/2012 10:38	12	0	0	0	20.1	0
7	2BW003	11/14/2012 10:39	12	0	0	0	20.0	0
7	2BW003	11/14/2012 10:40	12	0	0	0	20.2	0
8	2BW004	11/14/2012 10:43	11	0	0	0	21.4	0
8	2BW004	11/14/2012 10:44	11	0	0	0	19.5	0
8	2BW004	11/14/2012 10:45	12	0	0	0	19.3	0
8	2BW004	11/14/2012 10:46	12	0	0	0	19.5	0
8	2BW004	11/14/2012 10:47	12	0	0	0	19.4	0
8	2BW004	11/14/2012 10:48	12	0	0	0	19.3	0
8	2BW004	11/14/2012 10:49	12	0	0	0	19.5	0
8	2BW004	11/14/2012 10:50	12	0	0	0	19.4	0
8	2BW004	11/14/2012 10:51	12	0	0	0	19.3	0
9	Sync	11/14/2012 10:53	12	0	0	0	19.4	0
9	Sync	11/14/2012 10:54	12	0	0	0	19.4	0

Month of November 2012

MISCELLANEOUS
TEST
SAMPLING
DATA
(SOIL – DEBRIS – WATER – ETC.)

Reference	Sample Date	Description
A	11/01/12	Internal XRF – Temporary Impermeable Cap – Area E
B	11/05/12	Internal XRF – Temporary Impermeable Cap – Area C
C	11/06/12	Internal XRF – Clean common borrow at Grand Plaza
D	11/06/12	Internal XRF – North end clean haul road in MMZ
D	11/06/12	Internal XRF – Clean haul road between 2A & 2B
E	11/07/12	Internal XRF – Temporary Impermeable Cap – Area D
D	11/08/12	Internal XRF – Clean haul road at SE corner 2BE (RFI-16)
F	11/15/12	Spectra Analysis Report for Cooling Pond water sample
G	11/15/12	Internal XRF – Clean common borrow in MMZ
H	11/20/12	Internal XRF – Samples from Main & Grand haul roads
I	11/21/12	Internal XRF – Yacht Club basin sediments
J	11/21/12	Internal XRF – Final Cap on Waterwalk at Intersection 3

MRC Construction, LLC (XRF)

Temporary Impermeable Cap - Area E (Lot 1)

Samples taken from T.I.C. Area E before grading & capping.
November 1, 2012

Sample Date (or) Reading No.	Sample/Reading Time	Type	Duration	Units	Sequence	Sample Number	Site Code	Sample Depth	Subunit	Sample Type	Pb	As
8	11/1/2012 14:32	BULK	90	ppm	Final	AREA E-FYI-01-A1	AREA E	A	1		534.50	724.15
5	11/2/2012 9:14	BULK	90	ppm	Final	AREA E-FYI-02-A1	AREA E	A	2		215.49	181.16
6	11/2/2012 11:00	BULK	90	ppm	Final	AREA E-FYI-03-A1	AREA E	A	3		192.88	349.78
7	11/2/2012 11:55	BULK	90	ppm	Final	AREA E-FYI-04-A1	AREA E	A	4		318.11	307.17
Average											315.25	390.57

A

MRC Construction, LLC (XRF)

Temporary Impermeable Cap - Area C (Lots 9 & 11)

Samples taken from T.I.C. Area D before final pre-liner grading
November 5, 2012

Sample Date (or) Reading No.	Sample/Reading Time	Type	Duration	Units	Sequence	Sample Number	Site Code	Sample Depth	Subunit	Sample Type	Pb	As
4	11/5/2012 15:26	BULK	90	ppm	Final	AREA C-FYI-01-A1	AREA C	A	1		239.07	121.06
19	11/6/2012 15:51	BULK	90	ppm	Final	AREA C-FYI-02-A1	AREA C	A	2		83.45	72.32
3	11/7/2012 10:41	BULK	90	ppm	Final	AREA C-FYI-03-A1	AREA C	A	3		186.90	105.35
4	11/7/2012 12:45	BULK	90	ppm	Final	AREA C-FYI-04-A1	AREA C	A	4		302.50	182.74
5	11/7/2012 14:05	BULK	90	ppm	Final	AREA C-FYI-05-A1	AREA C	A	5		582.58	1098.92

Average 278.90 316.08

B

MRC Construction, LLC (XRF)

CH2MHILL RFI-17

Samples taken from fill material above 60mil liner along Waterwalk adjacent to Grand Plaza.
November 1, 2012

Sample Date (or) Reading No.	Sample/Reading Time	Type	Duration	Units	Sequence	Sample Number	Site Code	Sample Depth	Subunit	Sample Type	Pb	As
15	11/6/2012 12:13	BULK	90	ppm	Final	RFI17-SAM-01-A1	RFI17	A	1		19.57	6.87
16	11/6/2012 13:04	BULK	90	ppm	Final	RFI17-SAM-02-A1	RFI17	A	2		16.54	8.15

Average 18.06 7.51

MRC Construction, LLC (XRF)

CH2MHILL RFI-16

Samples taken from gravel haul roads at buildings 2A/2B and near the north end MMEZ.
November 6 & 8, 2012

Sample Date (or) Reading No.	Sample/Reading Time	Type	Duration	Units	Sequence	Sample Number	Site Code	Sample Depth	Subunit	Sample Type	Pb	As
17	11/6/2012 13:57	BULK	90	ppm	Final	RFI16-SAM-01-A1	RFI16	A	1		38.43	51.35
18	11/6/2012 14:59	BULK	90	ppm	Final	RFI16-SAM-02-A1	RFI16	A	2		37.84	37.20
6	11/8/2012 14:30	BULK	90	ppm	Final	RFI 16-SAM-03-A1	RFI16	A	3		25.58	16.83

D

MRC Construction, LLC (XRF)

Temporary Impermeable Cap - Area D (Lot 18)

Samples taken from T.I.C. Area D before final pre-liner grading
November 7, 2012

Sample Date (or) Reading No.	Sample/Reading Time	Type	Duration	Units	Sequence	Sample Number	Site Code	Sample Depth	Subunit	Sample Type	Pb	As
6	11/7/2012 14:58	BULK	90	ppm	Final	AREA D-FYI-01-A1	AREA D	A	1		343.13	390.47
7	11/7/2012 15:57	BULK	90	ppm	Final	AREA D-FYI-02-A1	AREA D	A	2		4124.89	9044.83
4	11/8/2012 11:07	BULK	90	ppm	Final	AREA D-FYI-03-A1	AREA D	A	3		1792.28	3411.44
5	11/8/2012 11:59	BULK	90	ppm	Final	AREA D-FYI-04-A1	AREA D	A	4		306.77	459.90
Average											1641.77	3326.66

E



SPECTRA Laboratories

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11/16/2012


Point Ruston
5219 N. Shirley St.,
Suite 100
Tacoma, WA 98407

Project: Tacoma Smelter
Client ID: TSM 1112015
Sample Matrix: Water
Date Sampled: 11/15/2012
Date Received: 11/15/2012
Spectra Project: 2012110366
Spectra Number: 1

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>
Arsenic	0.070	mg/L	EPA 200.8
Copper	0.066	mg/L	EPA 200.8
Zinc	0.013	mg/L	EPA 200.8

F
(1)

SPECTRA LABORATORIES



Steve Hibbs, Laboratory Manager

a6/scj

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November 16, 2012

Point Ruston
5219 N. Shirley St.
Suite 100
Tacoma, WA 98407

Units: ug/L
Spectra Project: 2012110366
Applies to Spectra #'s 1

QUALITY CONTROL RESULTS

ICP-MS Metals - EPA Method 200.8 - Water

Method Blank

Date Digested: 11/16/2012 Date Analyzed: 11/16/2012

Element	CAS #	Result
Arsenic	7440-38-2	< 0.5
Copper	7440-50-8	< 0.5
Zinc	7440-66-6	< 0.5

Blank Spike (LCS)

Date Digested: 11/16/2012 Date Analyzed: 11/16/2012

Element	Spike Added	LCS Conc.	LCS %Rec
Arsenic	50.0	44.94	89.9
Copper	50.0	45.80	91.6
Zinc	50.0	44.77	89.5

LCS Recovery limits 85-115%

Matrix Spike/Matrix Spike Duplicate (MS/MSD)

Date Digested: 11/13/2012 Date Analyzed: 11/13/2012
Sample Spiked: 2012110062-1

Element	Sample Conc.	Spike Conc.	MS Conc.	MS %Rec	MSD Conc.	MSD %Rec	RPD
Arsenic	0.00	50.0	47.05	94.1	46.92	93.8	0.3
Copper	2.14	50.0	50.77	97.3	50.68	97.1	0.2
Zinc	680.70	50.0	724.90	88.4	721.00	80.6	9.2

Recovery Limits 70-130%

RPD Limit 20

SPECTRA LABORATORIES

Steven G. Hibbs
Laboratory Manager

CHAIN OF CUSTODY RECORD

POINT RUSTON

5219 N. Shirley Street, Suite 100, Tacoma, WA 98407
Phone: 253-752-2185 Fax: 253-752-7083



MRC Construction, LLC (XRF)

CH2MHILL RFI-18

Sample taken from material on concrete slab in north material management area
November 15, 2012

Sample Date (or) Reading No.	Sample/Reading Time	Type	Duration	Units	Sequence	Sample Number	Site Code	Sample Depth	Subunit	Sample Type	Pb	As
4	11/15/2012 15:43	BULK	90	ppm	Final	RFI 18-SAM-01-A1	RFI 18	A	1		21.59	14.32

Average 21.59 14.32

G

MRC Construction, LLC (XRF)

T.I.C. Area C Storm Water Overflow (Lot 9A)

Samples taken from clean haul roads (Main & Grand) adjacent to Exclusion Zone fence line after storm water receded.
November 20, 2012

Sample Date (or) Reading No.	Sample/Reading Time	Type	Duration	Units	Sequence	Sample Number	Site Code	Sample Depth	Subunit	Sample Type	Pb	As
3	11/20/2012 13:52	BULK	90	ppm	Final	MAIN-FYI-01-A1	MAIN	A	1		21.76	15.14
4	11/20/2012 14:45	BULK	90	ppm	Final	GRAND-FYI-01-A1	GRAND	A	1		33.50	16.48

Average 27.63 15.81

H

MRC Construction, LLC (XRF)

Yacht Club Sediments

5 point Composite sample obtained at about the 3' tide level
between the public boat launch and Breakwater Marina private dock access.
November 21, 2012 5:30 AM

Sample Date (or) Reading No.	Sample/Reading Time	Type	Duration	Units	Sequence	Sample Number	Site Code	Sample Depth	Subunit	Sample Type	Pb	As
4	11/21/2012 8:14	BULK	90	ppm	Final	YCSED-FYI-01-A1	YCSED	A	1		69.87	55.71

Average 69.87 55.71

I

In-House (XRF)

Storm Water Overflow

Samples obtained from locations flooded by storm water resulting from heavy rains on November 19, 2012.

RFI 19-SAM-03-A1: Sample obtained from Waterwalk landscape area between asphalt and Lot 9A (T.I.C. Area C) (Overflow 3) (Grid J-4)

RFI 19-SAM-04-A1: Sample obtained from Waterwalk landscape area between asphalt and shoreline armoring (T.I.C. Area C) (Overflow 3) (Grid J-3.75)

Sample Date (or) Reading No.	Sample/Reading Time	Type	Duration	Units	Sequence	Sample Number	Site Code	Sample Depth	Subunit	Sample Type	Pb	As
5	11/21/2012 10:01	BULK	90	ppm	Final	RFI 19-SAM-03-A1	RFI 19	A	3		31.89	15.41
6	11/21/2012 10:54	BULK	90	ppm	Final	RFI 19-SAM-04-A1	RFI 19	A	4		30.20	8.07

Average 31.05 11.74

J

Monthly Report 198, November 2012
Operable Unit 02
Asarco Tacoma Smelter Site

MISCELLANEOUS
INFORMATION

Reference	Date	Description
CHB	11/28/12	Copy CHB comments to Monthly Report No. 197
Addendum	12/03/12	Copy of Addendum No. 1 to Monthly Report No. 197

POINT RUSTON

5219 N. SHIRLEY ST. SUITE 100 RUSTON, WA 98407

SENT VIA EMAIL ONLY

December 3, 2012

Mr. Kevin L. Rochlin
Remedial Project Manager
U.S. Environmental Protection Agency
Region 10
1200 Sixth Avenue, ECL-111
Seattle, WA 98101
Rochlin.Kevin@epamail.epa.gov

Addendum No. 1: Monthly Report: No. 197, October 2012
Operable Unit No. 02 - Asarco Tacoma Smelter Site

ADDENDUM NO. 1

This Addendum No. 1 is made part of the original Monthly Report No. 197 and modifies Section B(4) (Methane Monitoring) as follows:

Point Ruston performs subsurface methane gas monitoring pursuant to the EPA approved "Building 2B Sampling & Analysis Plan – Subsurface Gas Monitoring Activities" plan. In 2009 a passive gas extraction system was installed as part of the construction of the 2B-West building foundation. In 2011 four (4) methane monitoring locations were installed under the 2B-West building foundation and four (4) gas monitoring wells were installed within the boundaries of the 2B-East building foundation. Sampling of these locations has been ongoing, pursuant to ASTM E2600. On October 9, 2012, as part of the building foundation construction, the four (4) gas monitoring wells within the boundaries of the 2B-East building were plugged and abandoned. Monitoring locations under 2B-East will be reconstructed upon completion of the 2B-East building foundation. Methane monitoring for the month of October was conducted on the four (4) remaining locations on the passive gas extraction system under the 2B-West building foundation. The Gas Monitoring Data Log and field worksheet for the month of October are attached (as part of the original Monthly Report No. 197. No methane has been detected to date. Methane monitoring of the passive extraction system will continue.

cc: Evan Griffiths, CH2MHill
Leslie Ann Rose, Citizens for a Healthy Bay
Steve Teel, Wash. Dept. of Ecology



November 28, 2012

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Mr. Kevin Rochlin,
Environmental Project Manager
US EPA Region 10
1200 Sixth Avenue, Suite 900
Tacoma, WA 98101

Re: Monthly Report No. 197, October 2012
Operable Unit No. 02 – Asarco Tacoma Smelter Site

Dear Mr. Rochlin:

CHB appreciates the opportunity to review and comment on the monthly report referenced above. Our review of this report indicates that:

- Outfall samples were collected by Point Ruston on October 8th, 15th, 22th, 29th and November 5th. There were no exceedances.
- Point Ruston collects leachate from the OCF and volumes currently average 95 gallons per day, 5 gallons per day less than the long time daily average. Leachate disposal was not required in October.
- Perimeter air monitoring was conducted October 1st through November 3rd. There were no exceedances.
- Personal air monitoring was not required in October.
- Subsurface methane gas monitoring was conducted on October 17th as indicated by the Methane Monitoring Data Log submitted concurrently with the report.
- Miscellaneous sampling and analysis events were conducted on October 1st, 9th, 10th, 11th, 23rd, 30th, and 31st.

Executive Director

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Bill Pugh

Lee Roussel

Robert Stivers

Angie Thomson

Sheri Tonn

Allen Zulauf

The narrative for methane gas monitoring, sampling and data presented in Item B.4, page 5 of the report is confusing. The report indicates that the gas monitoring wells were capped on October 9th and that monitoring would resume post RA but that monitoring was conducted on October 17th. These statements appear to be contradictory.

CHB looks forward to continuing to work cooperatively with both EPA and Point Ruston toward successfully completing the site remedy.

Sincerely:

Leslie Ann Rose
Senior Policy Analyst

cc: Loren Cohen, Point Ruston

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